Author index — Namenverzeichnis

A
Aarsaether, N. 492
Aarsland, A. 492
Abad, C. 67
Abbott, R. W. 590
Abdalla, S. 78
Abdallah, A. M. 463
Abdeddaim, K. 172
Abdel Hamid, M. E. 97
Abdel-Moety, E. M. 92
Abdillahi, M. M. 76
Abdul Karim, K. N. 275
Abdulsada, A. K. 272
Abe, K. 380
Abe, M. 260
Abe, S. 170
– 196
Abeed, F. A. 466
Abeijon, C. 298
Abernethy, D. R. 490
Aberth, W. 163
Abidi, S. L. 270
– 468
Abo-Raya, S. H. 188
Abounassif, M. A. 568
Abou-Taleb, S. A. 466
Abraham, S. J. 581
Abramov, V. N. 85
Abu-Zuhri, A. 374
Aczél, S. 481
Adachi, T. 175
– 202
Adam, M. 396
Adams, F. C. 279
Adams, L. D. 103
Adkinson, J. T. 399
Aerov, A. F. 581
Afanas'eva, S. I. 584
Afanas'eva, V. I. 280
Afanassiev, A. M. 173
Afonso, A. M. 374
Agafonov, I. L. 85
Agarwal, S. L. 469
Agarwal, S. P. 191
Agnew, M. P. 487
Agrawal, Y. K. 72
– 377
– 463
– 580
– 583
Aguinaldo, A. R. 673 Or
Aherne, G. W. 398
Ahmad, A.-K. S. 92
Ahmad, R. B. 230
Ahmed, A. K. 175
Ahmed, M. E. 146 Or
Ahmed, R. 510 Or
Ahmed, S. 65
Ahmed, Z. A. 146 Or
Ahonen, I. 180
Aihara, M. 375
Airoldi, L. 395
Akahane, K. 102
Akatsu, E. 171
Akatsuka, K. 53 Or
Akbari, A. 200
Akif Seckin, M. 385
Akimov, V. K. 81
Akimova, T. G. 585
Akino, M. 299
Akita, M. 195
Al-Abachi, M. Q. 466
Alai, M. 485
Al-Allaf, T. A. K. K. 466
Al-Ameeri, R. S. 373
– 458
Alarazi, J. 297
Alarcón, O. M. 289
Alary, J. 464
– 583
Alawi, M. A. 285
Alba, D. 373
Albano, C. 83
Al-Bayati, R. I. 175
Alben, K. T. 273
Alberti, K. G. M. M. 484
Alberts, R. 387
Albi, M. A. 586
Al-Daher, I. M. 270
Alder, J. F. 470
– 474
Aldinucci, D. 400
Alegria, J. M. 377
Alembik, M. C. 267
– 268
– 390
Ales, F. 77
Alexander, G. 272
Alexander, L. R. 297
Alexander, P. W. 271
– 582
Alexander, R. 272
Alexandrov, S. 314 Or
– 358 Or
Alexandrov, St. 561 Or
Alfassi, Z. B. 730 Or
Alford-Stevens, A. L. 482
Alfredson, T. 454
Al-Hajjaji, M. A. 73
Ali, K. 482
Alimarin, I. P. 171
Al-Kahtani, H. M. G. 568
Allain, P. 490
Allen, A. C. 394
Allen, D. I. 388
Allen, E. H. 390
Allen Chang, C. 577
Allenger, V. M. 383
Alley, E. G. 270
Allibert, M. 87
Allison, J. 592
Allmaier, G. 393
Allmendinger, H. 434 Or
Almendral Parra, M. J. 189
Al-Nuri, I. J. 169
Alonso, E. 284
Alonso, R. M. 174
Alonso Mateos, A. 189
Alpert, G. 491
Alric, M. 394
Al-Tamrah, S. A. 73
Al-Thamir, W. K. 272
Althaus, F. R. 201
Alvarez-Coque, M. C. G. 72
Alvarez-Gonzales, R. 201
Alvinerie, M. 587
Alwarthan, A. A. 590
Al-Zamil, I. Z. 73
Amagaya, S. 97
Amato, A. 98
Amato, A.
– 394
Amberson, J. 376
Ambhore, D. P. 375
Amemiya, T. 276
Amer, A. 270
Amin, D. 175
– 269
– 468
– 582
Amirov, K. M. 278
Ammann, D. 573
Amossé, J. 87
Analytical Working Group CTEF 277
Ananda, A. L. 104
Andersen, J. L. 484
Andersen, J. R. 591
Anderson, C. 92
Anderson, G. K. 369
– 569
Anderson, H. A. 73
Anderson, J. M. 90
Anderson, J. T. 425 Or
Anderson, P. 197
Andersson, B. 475
Andersson, J. T. 79
Andersson, K. 475
Andino, M. M. 369
André, J. C. 98
– 370
Andrikopoulos, N. K. 481
Andronikashvili, T. G. 68
Aneva, Z. 561 Or
Angelini, M. M. 84
Angenot, A. 90
Angerer, J. 643 Or
Anghel, D. F. 86
Angyal, G. 696 Or
Anjaneyulu, Y. 462
Ansari, G. A. S. 196
Anthony, F. A. 494
Antipin, V. A. 74
Antipova-Karataeva, I. I. 167
Anton, D. L. 202
Anton, E. 86
Aoki, I. 289
Aoki, T. 290
Aoki, Y. 594
Aoyagi, H. 175
Appanna, V. D. 298
Appelqvist, R. 291
Applegarth, D. A. 594
Appleton, J. M. H. 161
Apps, P. J. 264
Apte, S. C. 181
Arai, M. 102
– 375
Arashidani, K. 194
Aratskova, A. A. 455
Ardekani, A. M. 596
Arena, J. V. 373
Arey, J. 183
Argese, E. 475
Arikawa, Y. 385
Arimoto, H. 68
Arm, H. 65
Armanino, C. 480
Armstrong, D. W. 594
Arnold, M. A. 169
Arnold, P. J. 296
Arnold, R. N. 590
Arnould, M. 79
Aroc, R. V. 167
Aronbaev, D. M. 98
Arpadjan, S. 561 Or
Arpino, P. J. 263
– 470
Arrebola Ramirez, A. 587
Arthur, C. L. 191
Artiss, J. D. 568
– 592
Asai, H. 101
Asakura, T. 595
Asano, M. 291
Ashraf, M. 180
Ashworth, A. J. 458
Asleson, G. L. 400
Astakhova, N. A. 569
Astruc, M. 477
Asuero, A. 583
Asuero, A. G. 378
– 568
Atalay, A. 467
Atalla, L. T. 175
Atamna, I. 66
Athavale, S. V. 81
Atherton, D. R. 591
Athnasios, A. K. 93
Atkinson, R. 183
Atomura, M. 183
Atsuya, I. 53 Or
Attygalle, A. B. 267
Auld, D. S. 494
Aumont, G. 480
Aussems, C. N. M. 464
Avery, J. P. 66
Avilés, F. X. 103
Awde, D. B. 481
Ayad, M. M. 97
– 393
Ayers, F. C. 193
Aygün, S. 385
Ayi, B. K. 189
Aziz Alrahman, A. M. 73
Aznárez, J. 374
Azuma, T. 381
Azumi, T. 386
Azzam, A. M. 284
– 389

B
Baba, N. 168
Babich, V. V. 284
Bachas, L. G. 393
Bachman, W. J. 391
Bachmann, W. J. 391
Backhaus, F. 707 Or
Badoud, R. 283
Bagnoud, M.-A. 388
Bailey, B. A. 494
Bailey, G. G. 192
Baim, M. A. 587
Baker, C. D. 92
Baker, G. B. 291
– 485
Balasanmugam, K. 281
Balasiewicz, W. 274
Balasubramanian, N. 75
Balazy, M. 291
Baldwin, R. P. 290
Baldwin, R. P.
– 378
Ball, E. H. 103
Ballard, L. B. 265
Ballesteros, L. 378
Ballschmiter, K. 253 Or
Baluja-Santos, C. 587
Banakh, O. S. 68
Bandemer, H. 167
Bandi, Z. L. 196
Bandyopadhyay, C. 274
Bandyopadhyay, S. 463
Bansal, R. K. 579
Bansho, K. 278
Banton, M. I. 290
Baranowska, I. 575
Barary, M. H. 97
Barbalat, Yu. A. 276
Barbera, J. C. 286
Barceló, D. 454
Barcuchova, A. 287
Barek, J. 471
– 479
Barinaga, C. J. 386
Barker, C. 179
Barker, S.-A. 294
Barman, B. N. 174
Barnes, R. 49 Or
Barnes, R. M. 63
– 64
– 66
– 85
– 273
– 275
– 288
Barnett, N. W. 567
Baron, B. N. 466
Baroni, U. 384
Barr, R. M. 200
Barratt, M. D. 594
Barron, D. A. 400
Barron, D. C. 178
Barros, A. A. 590
Bartek, M. J. 295
Barthelemy, C. 291
Bartuzi, G. 267
Barwise, A. J. G. 470
Baryshev, V. B. 64
Bashir, W. A. 175
– 269
Basili, A. 98
– 394
Baskin, V. N. 81
Basova, E. M. 171
Batra, J. B. 164
Battaglia, R. 284
Baudot, Ph. 98
Bauer, C. F. 183
Bauer, D. 274
Bauersfeld, W. 194
Baughcum, S. L. 177
Bauman, N. 576
Baumbach, J. 68
Baxter, D. C. 567
Baxter, L. J. 183
Baxter, R. I. 79
Bayan, K. C. 579
Bayanov, A. P. 583
Bayer, E. 78
Bayer, E. A. 481
Bayliss, M. T. 195

Beaudeau, G. 490
Beaudry, M. A. 198
Beaulieu, N. 190
Beaulieu, P. 475
Beaumelle, B. D. 78
– 104
– 595
Bebeshko, G. I. 280
Beccaria, A. M. 177
– 584
Bechara, E. J. H. 395
Beck, H. 388
Becker, L. 288
Becker, R. 197
Becker III, H. W. 292
Bedair, M. 287
Bedard, P. R. 487
Bedareva, L. B. 173
Beech, C. L. 88
Begley, P. 399
Behnert, J. 260
Behrend, P. 260
Beidler, D. 397
Beiley, G. G. 289
Beinrohr, E. 577
Bekov, G. I. 88
Belal, F. 590
Belal, S. 190
Belal, S. F. 97
Bélanger, G. 169
Belchamber, R. M. 369
Belenko, L. E. 177
Belkin, F. 183
Bellar, T. A. 482
Belliveau, J. F. 193
Beloded, L. N. 86
Belomestnova, N. V. 569
Belyaev, Yu. I. 180
Belyakova, L. D. 458
Bender, A. O. 272
Beneytout, J. L. 78
Benezra, S. A. 260
Ben-Hur, H. 481
Benner, J. P. 285
Benowitz, N. L. 593
Benraad, Th. J. 290
Bentz, B. L. 276
Benzo, L. 199
Benzo, Z. 178
Berek, D. 373
– 394
Berengard, I. B. 80
Berezhin, V. G. 263
Berezkin, V. G. 68
– 263
Berg, F. van den 479
Berg, K. J. van den 400
Bergamini, T. 372
Bergdahl, A. 195
Berge, R. K. 492
Berger, N. A. 202
Berger, S. J. 202
Berghmans, M. C. J. 188
Berka, A. 471
Berkelman, T. R. 488
Berkhof, R. J. 483
Berlioz, B. 75
Berlizov, Yu. S. 68
Berman, S. S. 181
– 387
– 712 Or
Bermejo-Barrera, A. 375
– 461
Bermejo-Martinez, F. 375
– 461
– 587
Bernal, J. L. 479
Berry, V. 262
Bertenyi, I. 273
Berthod, A. 372
Bertin, D. 198
Bertini, I. 566
Bertocchi, G. 268
Besada, A. 466
Best, D. 182
Betsch, D. F. 298
Betteridge, D. 369
– 574
Bettinelli, M. 384
Beusen, J. M. 88
Bezard, J. 481
Bezúr, L. 177
Bhan, C. 64
Bhargava, R. C. 469
Bhatnagar, A. 164
Bhatt, V. J. 463
Bhattacharyya, S. N. 376
Bhatty, J. I. 382
Bhounsule, G. J. 96
Bialkowski, S. E. 369
Bicking, M. K. L. 173
Bidlingmeyer, B. 465
Biel, H. J. 103
Biemann, K. 571
Bieszk, M. 64
Biffar, S. E. 190
Biggs, W. R. 183
Bigley, F. P. 94
Bigma, V. V. 83
Bigu, J. 585
Bikkulova, A. T. 74
Bilewicz, R. 465
– 469
Billedeau, S. M. 93
Bílý, J. 165
Bindels, J. G. 486
Binder, R. 199
Birks, J. W. 66
– 172
– 275
Bishop, R. W. 183
Biziuk, M. 387
Björkhem, I. 104
Black, B. H. 470
Black, D. B. 393
Black, R. M. 399
Blackburn, D. H. 64
Blago Razmilic, B. 289
Blanchard, R. D. 478
Blanchin, M.-D. 95
Blanco, M. 463
Blank, A. B. 177
Blankenship, P. B. 593
Blanquet, R. S. 594
Blaser, O. 747 Or
Blitek, D. 393
Bloemendal, H. 397
Bloh, A. M. 491
Blom, K. F. 570
Bloxham, P. A. 165
Blumenthal, R. 288
Bobbie, B. A. 493
Bobik, A. 199
Bobrowski, A. 459
Bobylev, V. A. 267
Boček, P. 286
Bodzek, D. 83
Bögemann, G. 104
Boev, V. I. 85
Bogaert, R. J. 466
Bogatyryov, V. L. 454
Bøg-Hansen, T. C. 62
Bognar, A. 189
Bogoslovskaya, T. A. 280
Bogoslovskii, V. V. 85
Boiko, A. I. 83
Boiko, L. I. 85
Boiret, M. 288
Bojarski, J. 391
Bokic, Lj. 275
Bolaji, O. O. 491
Bol'shakova, L. I. 585
Bol'shov, M. A. 64
Bol'shova, T. A. 171
Bombardt, P. A. 389
Bonakdar, M. 198
Bond, A. M. 85
– 278
Bond, J. S. 298
Bond, M. D. 494
Bondesson, U. 197
Bonilla, M. 395
Bonkovsky, H. L. 297
Bonner, H. S. 201
Bontempelli, G. 276
Booth, N. H. 200
Boppana, V. K. 198
Borcherding, J. 279
Bordás, B. 468
– 485
Borén, H. 280
Boréus, L. O. 197
Borghi, L. 592
Borisenko, U. S. 267
Bornhorst, T. J. 87
Borodai, L. V. 471
Borszéki, J. 69
Borwitzky, H. 189
Bosch, A. 161
Bosch, E. 271
Bosch, M. J. A. v. d. 188
Bosch, Reig, F. 267
Bossche, W. van den 95
– 589
Botvina, A. Ya. 570
Botvin'eva, A. M. 84
Bouchard, M. 370
Bouchy, A. 370
Bourbon, P. 287
Bourgognon, H. 273
Bousquet, E. 90
Boutton, T. W. 590
Bovara, R. 193
Bower, N. W. 289
Bowley, H. J. 274
Božek, P. 394
Bozimowski, D. 568
Brachetti, A. 179
Bradley, J. M. 198
Bradshaw, J. S. 174
– 264
Brätter, P. 377
Bragander, H. F. de 188
Brajter, K. 477
– 763 Or
Brajter-Toth, A. 170
Braman, R. S. 475
Brancaleoni, E. 179
– 183
Branch, C. H. 87
Brandenberger, H. 228 Or
Brandšteterová, E. 91
Brandts, P. M. 66
– 372
Brandys, J. 157 Or
Branica, M. 719 Or
Braseur, T. 90
Brass, E. P. 292
Braswell, W. M. 591
Brater, D. C. 490
Bratslavskaya, A. L. 580
Brauns, A. 471
Brazier, J. L. 98
Brendel, E. 197
Brenna, J. T. 394
Brenner, G. S. 94
Brezhnev, V. Yu. 382
Bridges, M. A. 594
Bright, F. V. 191
– 370
Brimmer, P. J. 568
Brinkman, M. B. C. 480
Brinkman, U. A. Th. 295
– 454
– 483
– 488
– 571
Brittain, H. G. 178
Britton, E. D. 179
Brocco, D. 474
Brochu, M. 487
Brockmeyer, R. 770 Or
Brockwoldt, W. 199
Brode, E. 199
Brodie, K. G. 283
– 481
Broekaert, J. A. C. 495 Or
Broge, J. M. 593
Brokerhof, A.-W. 491
Bronskill, P. M. 202
Brooks, C. J. W. 268
Brooks, D. E. 86
Brooks, M. A. 588
Brooks, M. Y. 459
Brossas, J. 372
Brotherton, S. A. 468
Brovko, L. Yu. 596
Brown, N. D. 85
Brown, P. R. 398
Brown, R. C. 470
Brown, R. M. 569
Brown, R. T. 290
Brown, W. T. 397
Brownen, F. L. 291
Brownlee, R. T. C. 96
Broyles, C. A. 191
Bruckenstein, S. 75
– 385
Brueggemann, E. E. 183
Brueggemeyer, T. W. 168
Brüggerhoff, S. 105 Or
– 528 Or
Brügmann, L. 387
Bruening, R. C. 189
Bruin, G. J. M. 571
Bruinvis, L. 593
Brunner, C. A. 590
Bryant, R. G. 371
Brzezinska-Paudyn, A. 278
Březina, M. 376
Brzózka, Z. 573
Buchert, H. 253 Or
Buchholz, H. 388
Buck, W. B. 493
– 587
Buckee, G. K. 92
Budde, W. L. 482
Budevsky, O. 492
Bueno, M. P. 696 Or
Bufalo, G. 281
Bugaevskii, A. A. 574
Buhler, D. R. 185
Bui, K. H. 594
Bularz, K. 83
Bulinski, J. C. 486
Bullen, W. W. 294
Bulman, T. L. 89
Bulygin, A. N. 98
Buncick, M. 282
Buøen, S. 472
Burchill, P. 272
Burda, B. H. 469
Burda, J. 272
Burešová, J. 760 Or
Burford, R. P. 85
Burguera, J. L. 73
– 289
– 591
Burguera, M. 73
– 289
Burguera, M.
– 591
Burini, G. 188
Burke, D. J. 298
Burns, D. H. 166
Burns, D. T. 79
– 371
– 378
Burridge, J. C. 73
Bursey, J. T. 282
Bursey, M. M. 456
Burstein, E. S. 198
Burton, H. R. 280
Burylev, B. P. 82
Burylin, M. Yu. 583
Buschmann, N. 123 Or
Bush, P. B. 200
Buszewski, B. 394
Butler, F. E. 474
Butte, W. 449 Or
Buttini, P. 183
Buzlanova, M. M. 267
By, A. W. 393
Bychkov, E. A. 460
Bye, R. 75
Byrne, A. R. 723 Or
– 733 Or
Bystrický, L. 67

C

Cabeza, C. 293
Cabral, J. O. 590
Caccamo, F. 284
Caddy, B. 95
– 200
– 491
Caillard, C. 296
Cairns, T. 285
Calabresi, P. 193
Caldwell, K. D. 373
Callejon Mochon, M. 70
Callis, J. B. 166
Calvo, A. 164
Cámara, C. 395
– 465
Camara-Rica, C. 723 Or
Campanella, L. 586
Campbell, A. K. 196
Campbell, E. B. 467
Campistron, G. 296
Campos, A. 67
Campos, J. M. 491
Campos, M. de 669 Or
Canals, A. 168
Candiano, G. 194
Cano Pavón, J. M. 484
Cantera, M. A. de la 475
Cantow, H.-J. 62
Caparrini, A. 400
Capasso, J. M. 298
Capitán, F. 170
– 587
Caplan, Y. H. 396
Capone, S. 477
Cappellini, L. 395
Carabias Martínez, R. 482
Carbonnelle, Ph. 382
Carbrera-Martin, A. 80
Cardá, V. 166
Cardin, A. D. 594
Cardon, P. 104
Cardwell, T. J. 77
Carfagnini, G. 284
Carl, M. 388
Carlsen, V. 278
Carlson, M. P. 189
Carmo Freitas, M. 87
Carmon, B. 175
Carnahan, J. W. 76
Carne, T. J. 593

Carney, S. L. 195
Caron, J. 199
Carpenter, R. 63
Carrea, G. 193
Carrié, M.-L. 487
Carrillo, F. 395
Carrion, J. L. 472
Carrion, N. 178
Carrion Dominguez, J. L. 578
Carrum, G. 490
Carson, L. J. 186
Carter, G. T. 576
Carter III, R. O. 584
Cartoni, G. P. 91
Caruana, R. A. 166
Caruso, J. A. 184
Casanova, M. G. 98
Casassas, E. 577
Casoli, A. 578
Cassandro, P. 493
Casseres, K. E. de 182
Cassidy, J. 374
Cassidy, R. M. 175
– 176
Cassir, M. 72
Castellano, J. M. 586
Castello, G. 280
Castetbon, A. 477
Castino, M. 480
Castro, R. M. de 95
Caude, M. 273
– 454
– 455
Cauquis, G. 467
Cavaleru, A. 86
Cavazzutti, G. 98
– 394
Cavrini, V. 484
Cechetti, P. 199
Cecinato, A. 179
– 183
Centeno Gallego, M. 70
Cerdá, V. 463
Cerjan-Stefanović, Š. 275
Čermáková, L. 165
Černý, O. 486
Cerny, R. L. 596
Cerovsky, M. 476
Ceulemans, J. 458
Ceva, P. 287
– 589
Chacon, J. M. R. 94
Chadha, R. K. 479
Chait, B. T. 276
Chaki, K. 386
Chakrabarti, A. K. 374
Chakrabarti, S. 100
Chakraborti, D. 279
Chakraborty, M. 393
Chalányova, M. 373
Chalisova, N. N. 464
Chalk, P. M. 89
Chalmers, R. A. 577
Chan, J. A. 392
Chan, K. K. 285
Chan, K.-M. 489
Chandler, C. J. 96
Chandola, L. C. 177
Chandrasekhar, K. 462
Chaney, S. G. 392
Chang, C. A. 270
Chang, F. C. 488
Chang, K. H.-C. 264
Chang, L.-F. 378
Chang, Q. 574
Chang, S.-G. 77
Chang, S. S. 92
Chan Van Than 577
Charalambous, G. 366
Charles, M. J. 89
Charov, A. I. 85
Chartier, P. 273
Chateau-Gosselin, M. 588
Chau, A. S. Y. 285
Chauhan, B. L. 393
Chauhan, B. S. 375
Chaves das Neves, H. J. 174
Chekmarev, A. M. 73
Chelghoum, C. 172
Chen, B. 578
Chen, M. S. 596
Chen, R. F. 70
Chen, Y. H. 456
Cheng, H. 288
Cheng, W. 571
Chepegina, E. K. 278
Chernaya, N. V. 83
Cheshchevoi, V. N. 83
Chesler, S. N. 272
– 282
Chessebeuf, M. 488
Chester, T. L. 93
– 174
Cheung, W. Y. 494
Cheyvialle, D. 394
Chiarotti, M. 96
Chimenti, F. 98
Chin, R. L: 472
Chiswell, B. 279
Chitrakar, R. 260
Chiu, G. 581
Chiu, P.-L. 183
Chlenov, M. A. 485
Chmelíková, B. 390
Chmurska, M. 168
Choisy, H. 199
Cholewa, M. 742 Or
– 744 Or
Chong, C. S. 580
Chou, T. T.-t. 459
Chou, T.-Y. 465
Choudhury, V. N. 385
Chouliotis, A. 472
Chow, W. M. L. 95
Chrambach, A. 61
Christensen, J. K. 378
Christensen, J. M. 639 Or
– 656 Or
Christensen, R. G. 170
Christian, G. D. 71
– 76
– 164
– 166
– 377
– 395
– 460
– 564
– 592
Christophidis, N. 491
Christopoulou, C. N. 187
Chriswell, C. D. 82
– 83
Chu, A. H. T. 572
Chukov, S. P. 73
Chukwuani, C. M. 491
Chung, Ch.-H. 73
Churáček, J. 266
– 271
– 275
Church, W. H. 394
Churchouse, S. J. 100
Chuvilyaeva, N. I. 469
Ciccioli, P. 179
– 183
Cicero, S. E. 399
Ciesielski, W. 268
Ciganková, M. 585
Ciszkowska, M. 471
Ciuffo, M. 387
Clark, C. R. 469
– 590
Clark, J. M. 192
Clark, J. R. 162
Clark, R. J. H. 277
Clarke, M. J. 484
Clarke, R. J. 399
Claudy, P. 371
Claverie, N. 201
Claxton, L. D. 286
Clay, M. E. 166
Clegg, I. M. 470
Clegg, M. S. 395
Clement, B. A. 186
Clements, S. A. 601 Or
Cleuvenbergen, R. J. A. van 279
Clouet, F. 372
Cloutier, R. 627 Or
Clower, M., Jr. 186
Coburn, J. T. 288
Coccioli, F. 91
Coddens, M. E. 68
Coetzee, J. F. 75
Cohen, A. 396
Cohen, H. P. 91
Cokal, E. J. 583
Coker, L. E. 92
Cole, C. L. 65
Cole, K. C. 472
Cole, W. J. 268
Coleman, D. M. 161
Colgan, S. T. 465
Colin, P. 100
Collawn, J. F., Jr. 594
Collier, J. M. 195
Colling, E. L. 469
Collins, A. J. 190
– 588
Collins, C. H. 268
Collins, M. P. 369
Colmsjö, A. L. 455
Colwell, L. F., Jr. 260
Combaut, G. 90
Comet, F. 98
Commerscheidt, N. 707 Or
Compagnon, P. A. 570
Compton, L. A. 103
Connoly, D. E. 65
Conquy, T. 198
Conrad, R. 241 Or
Consul, J. J. 178
Cook, A. M. 277
Cooke, J. R. 665 Or
Cooks, R. G. 369
– 570
Cooper, D. A. 196
– 394
Cooper, H. A. 455
Cooper, J. R. 69
Cooper, R. G. 490
Cooper, R. S. 281
Cooper, W. J. 478
Cooper, W. T. 66
– 372
Corcia, A. di 284
Cornelis, R. 723 Or
Cornelissen, P. J. H. C. 188
Cornell, D. G. 85
Corrales, M. 477
Corrigan, O. I. 291
Ćosović, B. 202
Costanzo, S. J. 261
Cote, L.-M. 587
Cotter, R. J. 276
– 485
Coulais, Y. 296
Coull, J. M. 298
Council, E. 594
Courtot-Coupez, J. 182
Cousin, J. 263
Coutant, R. W. 179
Coutts, R. T. 291
– 294
– 485
Couturier, T. 395
Cova, A. 198
Coveney, R. M., Jr. 384
Covington, A. K. 164
– 484
Cowie, C. E. 582
Cox, J. A. 164
– 574
Crastes de Paulet, A. 487
Crathorne, B. 182
Crathorne, E. A. 274
Criddle, W. J. 479
– 581
Crisponi, G. 165
Crock, J. G. 88
Crockett, P. W. 69
Crössmann, G. 634 Or
Croll, B. T. 281
Croo, F. de 95
Crook, J. G. 473
Crouch, S. R. 176
Crow, D. R. 70
Crow, F. W. 486
Crowley, R. 494
Crozier, A. 487
Cruces, J. 72
Cruces Blanco, C. 186
– 285
– 575
Cruz Moreno, M. 465
Csányi, J. 484
Cserháti, T. 468
– 485
Csiky, I. 293
Cuesta, L. L. 179
Cumbers, K. M. 272
Cummings, F. J. 193
Cunningham, D. G. 283
Curran, D. J. 194
Curtui, M. 577
Cuyegkeng, M. A. 372
Czapińska, K. 456
Czichon, P. 584

D

Dąbek-Złotorzyńska, E. 763 Or
Dabrio, M. V. 572
Dabrowski, A. 456
Däppen, R. 65
D'Agostino, P. A. 399
Dahlem, A. M. 587
Dakshinamurti, K. 298
Dale, J. 472
Daley, L. A. 591
Dalgarno, B. G. 371
Dalin, A. R. 267
Dam, H. E. van 104
Dambowsky, R. 470
Damiani, P. 188
Damm, M. 195
Dammann, V. 395
Damme, F. van 260
Danehy, J. P. 270
Danen, W. C. 369
Danesh, B. 294
Danielova, I. I. 280
Daniels, D. H. 92
Danielson, N. D. 65
Danielsson, L.-G. 458
Dankert, J. 290
Dann, O. 297
Danz, H. J. 57 Or
Danzer, K. 167
Danzin, C. 201
Darbari, A. 454
Darbre, A. 259
Darmon, A. 198
Darskus, R. 154 Or
Das, A. K. 463
Das, H. A. 163
– 571
Das, H. K. 579
Das, J. 579
Dasgupta, P. K. 376
Das Gupta, V. 391
Daughton, C. G. 272
Davey, D. E. 476
David, P. 67
David, V. 379
Davidek, J. 282
Davidková, E. 282
Davidson, R. G. 86
Davies, F. F. 399
Davies, G. E. 102
Davies, J. 63
– 567
Davies, J. A. 381
Davies, J. P. 369
Davis, E. J. 299
Davis, G. E. 287
Davis, R. A. 493
Davitt, P. 593
Davoli, E. 395
Deangelis, N. J. 189
Deban, L. 479
De Blois, C. 378
De Chatel, R. 595
Dedek, W. 241 Or
Defibaugh, P. W. 696 Or
Degenhardt, K. H. 161
DeGraff, B. A. 370
Deguchi, M. 384
Degueldre, C. A. 462
De La Cruz, M. S. 66
De La Guardia Cirugeda, M. 578
Delcourt, J. 180
– 386
Delfert, D. 489
Delfini, M. 586
Delfino, G. 194
Delft, R. J. van 454
Dell, H. D. 294
Delves, H. T. 591
Demas, J. N. 369
– 370
Demediuk, P. 293
Demeshev, V. N. 173
Demeter, A. 583
Demirev, P. 485
Demkin, A. M. 172
Den Drijver, L. 293
Deprez, P. P. 280
Derde, M. P. 167
Derguini, F. 189
Deruaz, D. 265
DeRuiter, J. 590
Desai, H. K. 586
Desai, T. A. 72
Deschamps, J. R. 486
Dettbarn, G. 401 Or
Detter, L. D. 570
Deumié, M. 288
Devane, C. L. 295
DeWald, D. B. 103
Dhaliwal, G. K. 191
Diamandis, E. P. 581
Diamantatos, A. 87
Diamondstone, B. I. 585
Díaz, G. A. 398
Díaz García, M. E. 369
Dibbelt, L. 97
Dick, K. O. 268

Dicks, J. M. 396
Di Cola, D. 396
Diedrickx, J. L. 470
Diehl, H. 575
Dietl, F. 40 Or
Díez, L. M. P. 285
Diez-Masa, J. C. 572
Di Gleria, K. 197
Di Marzio, S. 284
Dimitrov, Chr. 458
Dimitrova, B. 492
Dimmock, N. A. 474
Dimofte, L. 582
Dimov, N. P. 458
Dines, T. J. 277
Di Nunzio, C. 493
Diop, A. 454
Di Palo, C. 179
Dipple, A. 488
Dirks, U. 480
Dirscherl, C. 658
Disinski, F. J. 92
Dittrich, K. 63
Divakar, T. E. 392
Divoux, S. 105 Or
Dixon, D. W. 260
Djabarov, D. N. 492
Djordjević, N. M. 264
Dmitrieva, M. A. 280
Dobychin, S. L. 163
Doctor, B. P. 85
Doerr, R. C. 188
Doersing, K. 294
Doff, D. H. 291
Doig, M. T. 400
– 487
Doležalova, M. 191
Dollimore, D. 382
Dolmanova, I. F. 596
Dombrowski, L. J. 287
Dominova, I. G. 575
Donard, O. F. X. 274
– 279
Donato, H., Jr. 594
Donges, U. 751 Or
Donnikov, I. V. 163
Donten, M. 459
Dorn, W. H. 71
Dornemann, A. 232 Or
Dorofeev, V. S. 63
Dorschel, C. 465
Dorsey, J. G. 66
– 165
Dorsey, T. E. 299
Dotin, M. 477
Doyle, R. J. 79
Doyle, T. D. 590
Drabaek, I. 278
Draisbach, R. 127 Or
Drašar, P. 486
Drawert, F. 69
Dressler, M. 258
Drew, P. K. P. 470
Driessche, E. van 62
Drover, D. R. 399
Drozd, A. V. 577
Drozd, J. 84
Drummer, O. H. 491
Druon, M. 473
Drzewinski, W. 80
Dubchenko, Yu. G. 285
Dubrawski, J. V. 474
Dubrova, T. V. 464
– 585
Duffy, M. L. 457
Dufka, O. 275
Duflou, H. 736 Or
Dugan, L. L. 293
Duijverman, P. 104
Duisterwinkel, F. J. 290
D'Ulivo, A. 77
Dumas, C. 455
Duncan, J. K. 298
Duncan, M. 589
Duncan, S. 193
Dunn, G. L. 400
Dunzendorfer, U. 200
Dupuy, A. E., Jr. 184
Dupuy, H. P. 182
Durán, I. 579
Duran, M. 593
Durand, J. S. 80
Dusoiu, N. 86
Dutov, M. D. 581
Dutrizac, J. E. 176
Dyer, A. 175
Dyke, K. van 596
Dzhabarov, D. N. 94
– 593
Dziwiński, E. 270

E

Eads, T. M. 371
Ebdon, L. 63
– 283
Ebel, H. 72
Ebel, M. F. 72
Ebel, S. 770 Or
Eberhard, A. 165
Eberlein, K. 354 Or
Ebert, R. F. 103
Ebrahim, H. 298
Ebrahim, M. Z. 389
Eckstein, B. 389
Eckstein, R. J. 587
Eddy, C. L. 283
Eder, G. 305 Or
Edmond, J. M. 477
Edmonds, C. G. 79
Edwards, H. E. 200
Edwards, J. V. 396
Edwards, L. A. 593
Efstathiou, C. E. 464
– 467
Eglington, G. 470
Egorenko, G. A. 471
Ehinger, S. C. 585
Ehrenberg, A. S. C. 368
Eiceman, G. A. 369
– 569
Eichelberger, J. W. 482
Eichenberger, R. 201
Eigendorf, H.-G. 190
Einarsson, S. 268
Ekambareswara Rao, K. 190
El Adl, S. M. 97
Elchuk, S. 175
Elder, J. F., Jr. 457
El-Din, M. S. 92
Elgass, H. 261
Elia, G. F. 592
Elinder, C.-G. 647 Or
Eliseeva, I. M. 86
El-Khateeb, S. Z. 589
El Kheir, A. A. 97
– 190
El Kordi, M. 467
Ellaithy, M. M. 589
Elliot, N. L. 175
– 176
El Sadek, M. 190
– 589
Elsaied, M. M. 76
El-Samman, F. M. 468
Elsayed, M. A. 97
Elsemongy, M. M. 580
El-Shabouri, S. R. 287
El Shanwani, A. 190
El-Tarras, M. F. 589
Eltekov, Yu. A. 271
Eltekova, N. A. 455
El-Yazbi, F. A. 287
Emkeu, E. M. 592
Emmerich, W.-D. 383
Emrich, G. 536 Or
Enami, K. 269
Endo, J. 380
Engel, I. 284
Engelhardt, H. 261
– 371
Engewald, W. 241 Or
Englert, P. 584
English, D. 596
Enke, C. G. 66
Enlow, P. D. 282
Ensor, D. D. 374
Epstein, E. 568
Ericsson, M. W. 455
Ermakov, A. N. 464
– 585
Ermakov, V. S. 73
Ernest, M. J. 292
Esch, R. 485
Esclassan, J. 583
Escrieut, C. 464
Eshwar, M. C. 578
Eškinja, I. 80
Eskra, J. D. 292
Espen, P. van 167
Essiger, B. 272
Esteban, M. 577
Estela, J. M. 166
Estes, E. D. 474
Estrella, M. I. 284
Etievant, P. 479
Eto, M. 171
Etter, R. 294
Ettmayer, P. 176
Evans, D. A. P. 490
Evans, J. C. 399
– 594
Evans, S. V. 586
Evenson, M. A. 395
Everhart, L. A. 95
Everitt, D. A. 388
Evershed, R. P. 470
Evrin, P. E. 195
Ewing, A. G. 459

F

Fabre, H. 95
Fahey, R. C. 193
Falick, A. M. 371
Faltynski, K. H. 572
Fand, I. 742 Or
Fanelli, N. 461
Fanelli, R. 395
Fang, Zh. 170
Farag, A.-F. B. 466
Farag, N. M. 393
Farag, R. S. 188
Farias, P. A. M. 588
Farinotti, R. 467
Farkaš, P. 77
Farkas-Jahnke, M. 72
Farwell, S. O. 277
– 386
Fasching, J. L. 67
Fatiadi, A. J. 570
Fatima, I. 384
Fatima, N. 266
– 376
Fay, R. 199
Fazio, S. D. 399
Fazio, T. 92
– 93
– 283
Federici, E. 98
Federici, G. 396
Fedyunin, Yu. N. 85
Fellows, L. E. 586
Feng, Z. Z. 77
Fenselau, C. 485
Fenselau, C. C. 84
Ferenbaugh, R. W. 289
Ferencz, A. 293
Fernadez, L. 577
Fernández, M. F. 463
Fernández-Arciniega, M. A. 174
Fernandez Perez, M. M. 578
Fernando, Qu. 179
Ferrari, P. 180
Ferrer, N. 277
Ferris, M. M. 70
Feshchenko, A. G. 85
Feshchenko, I. A. 85
Fetzer, J. C. 183
Feulmer, G. P. 269
Fiechter, A. 100
Fiedler, H.-P. 392
Field, F. H. 276
Field, R. S. 569
Fielden, P. R. 474
Figueruelo, J. E. 67
Files, L. A. 273
– 568
Filippov, Y. S. 387
Filpus-Luyckx, P. E. 371
Finlayson-Pitts, B. J. 365
Finley, D. 483
Fiori, A. 96
Firth, J. 98
Fischer, W. 87
Fish, W. W. 594
Fisk, J. D. 470
Fitch, W. L. 102
Fleischer, M. E. 569
Fleisher, L. N. 193
Fleming, N. 99
Flemming, M. 551 Or
Fletscher, R. A. 570
Flick, G. J., Jr. 182
Fligier, J. 584
Flockhart, B. D. 79
– 371
Flood, M. T. 185
Florence, E. 480
Florence, T. M. 476
Florentino, R. F. 673 Or
Floyd, T. R. 399
– 488
Foda, N. H. 197
– 199
Fodor, M. 293
Földes, J. 595
Fogelqvist, E. 458
Fogelzang, A. E. 581
Fogg, A. G. 174
– 460
– 590
Folestad, S. 268
Foley, R. C. L. 455
Foltz, R. L. 297
Fomina, T. A. 464
Fompeydie, D. 162
Fong, K.-L. L. 198
Fong Fu Hsu 79
Fonong, T. 581
Forbes, K. A. 588
Forbes, R. A. 288
Forina, M. 480
Forteza, R. 484
Fortier, G. 268
– 291
Fouda, A. S. 580
Foulger, B. E. 399
Fournaise, I. R. 69
Fournet, B. 104
Fouwe, B. L. 273
Fowlie, P. J. A. 89
Fox, G. A. 398
Fox, J. L. 101
Fraile, R. 178
Francis, G. W. 90
Francis, R. W., Jr. 164
Frank, H. 153 Or
Frankel, E. N. 397
Frankenberger, W. T., Jr. 473
Franz, P. 387
Franzmann, P. D. 280
Frech, W. 567
Freeman, A. 164
Freers, J. L. 79
Freeston, L. K. 588
Frehse, H. 160
Frei, R. W. 275
– 295
– 367
– 454
– 488
– 571
Freiser, B. S. 288
Freiser, H. 78
– 172
Frenzel, W. 377
Frey, H. 370
Friberg, L. 647 Or
Fricke, F. L. 63
– 168
Fricke, H. S. G. 196
Friedman, H. 198
Friege, H. 154 Or
Fries, T. L. 178
Frind, H. 517 Or
Fritz, J. S. 175
– 467
Fritz, R. G. 589
Froment, G. F. 470
Fry, R. C. 173
Fryer, H. J. L. 102
Fudagawa, N. 379
Fujii, T. 68
Fujimoto, C. 454
Fujimoto, K. 380
Fujimoto, N. 93
Fujimoto, Y. 175
Fujimura, K. 92
Fujinaga, K. 540 Or
Fujino, O. 384
Fujishima, K. 398
Fujita, M. 586
Fujiwara, S. 593
Fukasawa, T. 74
Fukuda, E. 478
Fukuda, K. 290
– 386
– 492
Fukuda, R. 374
Fukushima, M. 482
Fulton, J. L. 456
Funae, Y. 595
Funakoshi, T. 102
Funasaki, N. 455
Funatsu, K. 189
Funk, W. 395
Fuoco, R. 68
– 77
– 461
Furr, H. C. 196
Furton, K. G. 68
Furusawa, M. 485
Furuya, K. 80
Furuya, S. 80
Fuwa, K. 178
– 181
– 622 Or

G

Gaál, F. F. 391
Gaboriaud, C. 572
Gabrielsen, B. 165
Gadde, R. R. 288
Gadzekpo, V. P. Y. 460
– 483
Gadzepko, V. P. Y. 164
Gaetani, E. 592
Gagel, J. J. 571
Gagliardi, L. 98
– 394
Gaivoronskii, P. E. 163
Gal, I. 87
Gal, J. 590
Gale, P. J. 276
Galeano Diaz, T. 284
Galensa, R. 283
Galfre, G. 100
Galitskaya, N. B. 458
Gallai, Z. A. 82
Gallmann, A. 163
Gallo, A. A. 78
Gallo, D. G. 295
Gallo Hermosa, B. 588
Gallorini, M. 634 Or
– 658
Galtier, P. 587
Gambardella, P. 392
Gamble, D. S. 286
Gamlen, G. A. 382
Gammans, R. E. 294
– 295
Gammelgaard, B. 591
Gancedo, M. T. 178
Ganguly, A. 465
– 475
Ganguly, N. N. 385
Gaonkar, M. V. 96
Garaj, J. 91
– 577
Garbe, W. 471
García Dánchez, F. 186
Garcia de Maria, C. 189
García de Torres, A. 484
Garcia-Martin, J. P. 463
Garcia Motelongo, F. 374
García-Raso, A. 269
Garcia-Raso, J. A. 166
Garciá Sánchez, F. 285
– 462
– 575
Garcia-Vargas, M. 95
Gardella, J. A., Jr. 472
Gardner, C. W., Jr. 75
Gardner, K. D., Jr. 493
Gardner, M. J. 483
Gareil, P. 273
Garg, A. K. 75
Garg, A. N. 164
Garganta, C. L. 298
Garmann, L. B. 383
Garrido, A. 377
Garriga, N. 377
Gaskell, S. J. 456
Gattavecchia, E. 98
– 394
Gauer, R. C. 585
Gautam, M. 464
Gavrichev, V. S. 263
Gavrilova, T. B. 194
– 458
– 581
Gawargious, Y. A. 393
– 466
Gazdag, M. 271
Gaździk, W. 296
Gbreëls, F. J.M. 396
Geerdink, R. B. 454
Gefahrstoffverordnung 566
Gehron, M. J. 170
Geladi, P. 373
Gelbert, M. B. 194
Gelderloos, D. G. 66
Gellert, U. 69
Gelsema, W. J. 66
– 372
Gemmer-Čolos, V. 766 Or
Gend, H. W. van 480
Geng, X. 177
Gennaro, M. C. 463
Genova, N. 580
Gentes, P. 570
Georgakopoulos, P. P. 391
George, S. E. 286
Georges, J. 375
Georgievskii, V. P. 568
Georgii, H. W. 385
Gerbino, T. C. 280
Gerow, D. D. 266
Gerrard, D. L. 274
Gershkovich, I. A. 284
Gether, J. J. 184
Geyer, H. 574
Geyer, R. 180
Gharfeh, S. G. 472
Ghiggeri, G. M. 194
Ghijsen, R. T. 264
Ghinea, N. 103
Ghini, S. 193
Gibbes Bailie, A., Jr. 472
Gibbons, A. P. 292
Gibbs, J. P. 96
Giddings, J. C. 67
– 373
– 460
Giddings, J. G. 67
Gies, A. 201
Gilbert, R. 169
Gill, R. 96
– 286
– 588
– 590
Gilmour, C. C. 274
Gilvarg, C. 400
Gilyard, F. L. 389
Gimeno Adelantado, J. V. 267
Ginevri, F. 194
Ginzinger, W. 389
Gionti, M. 392
Giovanni, N. de 96
Girard, I. 372
Girotti, S. 193
– 595
Gitlin, S. N. 277
Glab, S. 164
Gladney, E. S. 289
Glascock, M. D. 384
Glatz, B. 262
Glebko, L. I. 582
Gleeson, M. 196
Głód, B. K. 572
Głodowski, S. 469
Gloe, K. 574
Gloning, K. 97
Glowacz, G. 774 Or
Gluckman, J. C. 454
Gluth, W. P. 297
Gmelin 62
– 259
– 366
– 367
– 453
– 566
Goderis, H. L. 273
Goede, P. N. F. C. 490
Goeij, J. J. M.de 723 Or
Götz, A. 118 Or
Goewie, C. E. 260
– 483
Gohda, S. 182
Gohil, K. 487
Gohshi, Y. 579
Golabi, S. M. 575
Golas, J. 573
Goldberg, E. D. 386
Goldberg, V. D. 588
Goldman, A. S. 494
Goldstein, W. S. 586
Gołkiewicz, W. 262
– 267
Golombek, R. 261
Golos, I. Ya. 68
Golovnya, R. V. 455
– 581
Gomez-Doval, A. 375
Gomez-Hens, A. 64
– 468
Gómez-Henz, A. 595
Gonnet, C. 95
– 372
– 491
Gonsior, B. 105 Or
Gonzales, V. 261
Gónzales-Portal, A. 587
González-Barbagelata, R. V. 97
Gooijer, C. 275
Goraczko, A. 64
Gorbunov, A. A. 275
Gorczyńska, K. 469
Gord, J. R. 476
Gordon, B. M. 457
Gordon, G. 476
Gordon, S. M. 588
Gorham, J. 184
– 185
Gormand, D. 98
Gorshkov, A. I. 474
Gorton, L. 291
Gosnell, M. C. 78
Goto, J. 488
Goto, K. 485
– 579
Goto, M. 262
Goto, S. 90
Gotoh, M. 396
Gouda, M. M. 580
Gouezo, F. 198
Gouveia, M. A. 87
Gozzini, L. 195
Grabarić, B. S. 80
Grabarić, Z. 80
Gracheva, I. N. 93
Graef, V. 58 Or
Gramiccioni, L. 284
Granath, K. 390
Granger, R. L. 186
Granier, F. 103
Grant, C. L. 183
Grases, F. 484
Grasserbauer, M. 218 Or
Grasso, G. 281
Grayeski, M. L. 99
Grazhulene, S. S. 382
Greef, J. van der 493
Green, J. B. 261
Green, J. L. 186
Green, L. E. 457
Green, L. W. 175
– 176
Green, M. J. 197
Greenblatt, D. J. 198
Greenblatt, G. A. 488
Greff, G. 386
Gregorowicz, Z. 584
Gregory, M. S. 198
Greibrokk, T. 470
Grgurinovich, N. 492
Grieken, R. van 180
Griepink, B. 414 Or
Griffith, O. W. 467
– 494
Griffiths, P. R. 68
– 258
– 568
Grigor'ev, E. V. 569
Grigoryeva, D. N. 455
– 581
Grill, E. V. 279
Grimaldi, F. 198
Grimmer, G. 188
– 401 Or
Grimsrud, E. P. 468
Grimvall, A. 280
Grishnova, N. D. 84
Gritzapis, P. C. 581
Grizodub, A. I. 568
Grob, K. 159
Grob, K., Jr. 67
– 264
– 294
Grob, R. L. 67
– 94
Grobenski, Z. 70
Groce, D. F. 297
Grombach, P. 160
Gronski, P. 103
Gross, A. F. 93
Gross, M. L. 184
– 467
– 486
– 596
Grossenbacher, G. 277
Grossmann, O. 576
Grothe, W. 471
Grotjahn, L. 596
Grotjan, H. E., Jr. 591
Gruber, H. E. 296
Grushka, E. 66
– 571
Grzeskowiak, R. 283
Guadalupi, C. 392
Guardia, M. de la 472
Gud, G. M. 87
Gübitz, G. 275
Gündüz, T. 574
Guenier, J. P. 180
– 386
Guenther, F. R. 272
Günther, K. 266
Günther, W. 264
Guermouche, M. H. 172
Guidarini, D. 461
Guilbault, G. G. 90
Guiraum Perez, A. 70
Guisasola-Escudero, M. 461
Guiteras, J. 271
Gulick, W. M., Jr. 468
Gullner, G. 485
Gulpen, C. van 491
Gumerov, M.-F. 474
Gunasingham, H. 104
Gupta, C. 494
Gupta, P. K. 478
Gupta, P. L. 273
Gupta, Prabhat K. 478
Gupta, S. K. 287
Gurley, L. R. 484
Gurusiddaiah, S. 195
Gusev, G. M. 86
Gusev, V. I. 82
Guseva, G. V. 72
Gutierrez, A. M. 169
– 195
Gutierrez, M. C. 468
Guy, R. D. 89
Gvelesiani, L. T. 81
Gvelesiani, Z. A. 68
Gwilt, P. R. 287
Gyertyánfy, G. 595

H

Haack, L. P. 180
Haagsma, N. 187
Haberer, K. 160
Habib, I. H. 393
Hada, S. 455
Haddad, P. R. 170
– 271
– 455
– 582
Haddad, Y. 172
Hadjiioannou, T. P. 377
– 464
– 467
– 581
Hadzyev, D. 186
Haegele, K. D. 190
Härdi, W. 367
– 388
Hagedorn, I. 85
Hagen, J. A. 73
Hagendorf, U. 33 Or
Haginaka, J. 199
Haiduc, I. 577
Haigh, J. M. 295
Hájek, J. 269
Hájek, M. 760 Or
Haj-Hussein, A. T. 71
– 76
Hakansson, P. L. 292
Haken, J. K. 85
– 270
Hakusui, H. 199
Haldna, Ü. 480
Halfpenny, A. P. 398
Halicz, L. 87
– 88
Hall, G. L. 483
Hall, N. M. 400
Hall, S. 188
Hall, S. C. 66
Hamamoto, K. 587
Hambitzer, G. 163
Hameed, Y. O. 582
Hamid, H. A. 275
Hammer, W. 569
Hammers, W. E. 464
Hammock, B. 482
Hamon, M. 79
Han, Q.-X. 475
Hanami, H. 478
Hanamura, S. 169
– 273
Hanazato, Y. 467
Hancock, R. 278
Hancock, W. S. 397
Handong Yang 169
Haneke, C. 294
Haneklaus, S. 441 Or
Hani, N. M. 484
Haniff, M. I. 286
Hanna, M. H. 272
Hannappel, E. 292
Hanocq, M. 186
Hansen, E. H. 170
Hansen, S. H. 65
Hanson, A. L. 742 Or
Hansson, L. 293
Hanzawa, K. 88
Hara, H. 377
Hara, M. 577
Hara, S. 266
– 492
Harada, K. 582
Harada, Y. 381

Haraguchi, H. 178
Haraguchi, K. 297
Harding, D. R. K. 397
Hardison, D. L. 474
Harduf, Z. 194
– 593
Hardy, D. R. 470
Hardy, J. K. 478
Harimaya, S. 380
Harino, H. 576
Harless, R. L. 184
Harn, R. 464
Harnly, J. M. 161
Harper, G. 490
Harris, R. A. 202
Harrison, W. W. 80
– 370
Hart, D. J. 175
Hart, G. W. 397
Hart, L. P. 568
Hart, P. A. 381
Hartofylax, V. H. 464
– 467
Hartog, F. den 584
Hartshorn, J. N. 199
Hartwick, R. A. 66
– 193
– 260
– 399
– 488
Harvey, G. J. 482
Hasebe, K. 214 Or
– 476
Hasegawa, T. 73
Haseth, J. A. de 258
Hashem, E. Y. 375
Hashida, S. 99
Hashimoto, T. 65
Hashimoto, Y. 181
Hashitani, H. 540 Or
Haskell, R. J. 88
Hassan, E. M. 97
Hassan, H. N. A. 393
– 466
Hassan, S. S. M. 76
– 191
Hassan, Y. I. 175
Hasse, S. 142 Or
Hassett, D. F. 162
Hassett, D. J. 162
Hassouna, M. E. M. 393
– 466
Haswell, S. J. 283
Hatada, K. 571
Hatano, H. 263
– 265
Hatman, T. G. 94
Hattori, T. 89
Hau, J. 489
Hauck, H. E. 194
Haunold, W. 385
Hautbout, R. 383
Havaši, P. 476
– 572
Havel, M. 486
Havezov, I. 536 Or
Hawke, R. L. 484
Hawkes, W. C. 75
Hayase, K. 477
Hayashi, K. 168
– 202
– 400
– 464
Hayashi, M. 102
Hayashi, S. 492
Hayashi, T. 93
– 101
Hayashi, Y. 74
– 395
– 400
Hayashi, Y.
– 595
Hayata, E. 576
Hayhurst, J. 383
Haynes, B. W. 178
Hazai, I. 272
Healey, J. F. 297
Healy, E. J. 93
Heath, R. G. 184
Hechler, J.-J. 472
Heckendorff, H. 331 Or
Heckenmüller, H. 288
Heddur, R. B. 584
Hedin, A. B. 292
Heemskerk, J. W. M. 104
Hefley, A. J. 575
Heidelbaugh, N. D. 186
Heikes, B. G. 277
Heimburger, R. 591
Heimler, D. 586
Heineman, W. R. 460
Heisig, V. 281
Heitbaum, J. 163
Helboe, P. 65
– 486
Heller, T. 166
Heller, W. 365
Helly, P. J. 99
Henau, H. de 388
Hendrickson, R. L. 273
Henion, J. D. 590
Henrici-Olivé, G. 62
Henrion, G. 774 Or
Hensley, J. L. 457
Hentges, E. J. 590
Henze, G. 365
Herbel, W. 480
Herbert, H. 194
Hercules, D. M. 78
– 281
– 482
Heritage, I. D. 278
Hermandez, F. 286
Hernandez, F. 73
Hernandez Hernandez, L. 182
– 589
Hernandez Lopez, M. 462
Hernández-Méndez, H. 189
Hernández Méndez, J. 482
Hernandez-Torres, M. A. 66
Hernandis, V. 168
Herod, A. A. 272
Herrador, M. A. 583
Herrmann, F. 275
Herrmann, K. 283
Hertz, H. S. 396
Herve-Bazin, B. 386
Hess, K. R. 370
Hetper, J. 270
Heumann, K. G. 118 Or
Hevesi, T. 269
Hewedi, M. M. 188
Hewitt, I. J. 73
Heydorn, K. 258
Hieftje, G. M. 191
Hiermann, A. 185
Higashi, I. 584
Hiiro, K. 362 Or
– 460
Hill, H. A. O. 197
Hill, H. H., Jr. 265
Hill, J. O. 280
– 350 Or
Hill, R. H., Jr. 493
Hillstrom, M. 193
Hindman, F. D. 72
Hingouet, P. 490
Hinshaw, J. V., Jr. 269
Hinze, W. L. 568
Hioki, A. 379
Hiraide, H. 583
Hiraki, K. 384
Hirano, K. 202
– 400
Hirao, Y. 478
Hiraoka, S. 69
Hirata, S. 192
Hiratani, K. 573
Hirayama, C. 261
Hirayama, H. 261
Hirayama, M. 492
Hirokawa, K. 380
Hirose, N. 594
Hirotsune, S. 595
Hirschberg, C. B. 298
Hirth, Y. 201
Hites, R. A. 570
Hjelm, M. 636 Or
Hjerten, S. 65
Hlaváček, I. 583
Hlaváčková, I. 583
Hlavatý, J. 471
Ho, B. 294
Ho, C.-N. 184
Ho, C. T. 92
Hoch, D. J. 579
Hodge, V. 386
Hoebbel, D. 466
Höhler, J. 370
Höll, K. 365
Hoenders, H. J. 486
Hoenig, M. 90
Hoffman, N. E. 571
Hoffmann, H. 446 Or
Hoffmann, J. J. M. L. 290
Hoffmann, P. 237 Or
Hofmann, H. 237 Or
Hohn, M. 493
Hoke, S. H. 183
Holcombe, J. A. 369
Holdt, G. 170
Holik, R. 68
Holland, M. L. 490
Holler, J. S. 297
Hollingwirth, T. A. 92
Hollman, P. C. H. 690 Or
Hollowell, D. A. 476
Holm, K. A. 596
Holmquist, L. 595
Holt, M. S. 276
Holz, F. 586
Holzapfel, C. W. 293
Homma, Y. 82
Hommel, G. 160
Hommes, F. A. 202
– 593
Honc, F. 295
Honda, S. 269
– 593
Hondo, T. 67
Hong, V. 282
Honke, K. 489
Honma, H. 267
Hood, W. H. 74
Hoogmartens, J. 97
Hook, T. J. 472
Hoppel, C. L. 292
Hopping, W. D. 388
Hoque, E. 185
Horchak-Morris, N. 575
Horikoshi, T. 299
Horimoto, Y. 183
Horna, A. 266
– 271
Hornová, L. 266
Horowitz, J. D. 491
Horrocks, L. A. 293
Horst, A. van der 490
Horváth, Zs. 64
– 85
– 275
Hoshino, K. 80
Hoshino, T. 67
Hoskins, J. A. 399
Hosokawa, Y. 202
Hosoya, M. 80
Hoste, J. 584
Houin, G. 296
Houk, R. S. 175
– 582
Howard, A. G. 181
Howell, S. K. 297
Howie, A. F. 594
Hoyer, B. 573
Hozumi, K. 172
Hsia, S. L. 293
Hsieh, L. C. 294
Hsu, S.-H. 66
– 399
Hua, D. 70
Huang, H. 177
Huang, X. 161
Huang, X. B. A. 263
Hubbard, J. W. 295
Huber, D. M. 288
Huber, L. 262
Huber, R. E. 593
Hudson, D. A. 587
Huebert, N. D. 190
Hütsch, B. 567
Hüttner, A. 190
Hughes, M. E. 67
Hulanicki, A. 164
– 168
Humfeld, S. 295
Humpfer, E. 284
Hundt, H. K. L. 491
Hungerford, J. M. 460
Hunt, D. T. E. 478
Hunt, R. J. 457
Hunter, W. J. 185
Hurdley, T. G. 286
– 588
Hurley, L. S. 395
Hurtubise, R. J. 174
– 455
Hussein, N. 488
Husson, J. F. 273
Huszár, L. 271
Hutchins-Kumar, L. D. 262
Hutchinson, D. 87
Hutchinson, D. J. 92
Huth, J. A. 65
Hutton, R. C. 163
Hwang, H. 376
Hwang, S. Y. 400
Hylarides, M. D. 493
Hynes, J. B. 400
Hynková, A. 461
Hynning, P.-A. 197
Hyun, M. H. 175

I

Ianovskii, S. M. 456
Ibrahim, Y. A. 164
– 460
Ichioka, T. 99
Idahl, L.-Å. 292
Idowu, O. R. 491
Idriss, K. A. 375
Ignatiadis, I. 470
Ihara, H. 261
Ihnat, M. 627 Or
– 639 Or
– 739 Or
Iida, C. 382
– 579
Iida, T. 488
Iida, Y. 379
Iino, S. 400
Iizumi, Y. 400
Ikariyama, Y. 460
Ikeda, K. 276
Ikeda, M. 192
Ikenaka, T. 299
Ilias, E. 490
Ilić, Z. 585
Illman, D. L. 564
Ilmoja, K. 480
Imai, J. 101
Imanari, T. 103
Imaoka, S. 595
Imasaka, T. 569
Imato, T. 76
Imura, H. 88
– 99
– 382
Inada, Y. 299
Inamoto, K. 381
Inman, E. L. 568
Innis, D. P. 93
– 174
Inoike, Y. 74
Inokuma, Y. 380
Inoue, N. 101
Inoue, S. 99
Inoue, T. 466
Ioffe, B. V. 69
Ip, C. Y. 595
Iriyama, K. 290
– 396
Irvin, C. S. 590
Isaacs, N. S. 385
Isaksen, M. 90
Isaksson, R. 391
Ishchenko, V. B. 81
Ishibashi, M. 594
Ishibashi, N. 76
– 569
Ishida, J. 102
Ishii, D. 101
– 262
Ishii, H. 379
– 464
Ishii, J. 486
Ishii, K. 175
Ishii, M. 77
– 181
– 192
Ishikawa, E. 99
Ishikawa, K. 295
Ishikawa, M. 586
Ishikawa, S. 398
Ishizuka, T. 379
Israel, Y. 288
Issa, Y. M. 461
Issaq, H. J. 478
Itabashi, Y. 467
Ito, K. 53 Or
Ito, T. 578
Ito, Y. 202
– 262
Ivanenko, V. V. 87
Ivanov, S. 458
Ivanov, V. M. 171
Ivanov, V. N. 87
Ivanova, E. 536 Or
Ivanova, E. K. 276
Ivanova, L. V. 596
Ivanova, T. V. 94
Ivanović, D. 393
Ivaska, A. 165
– 471
Iversen, B. 470
Ivnitskii, D. M. 98
Iwagawa, T. 197
Iwamoto, E. 73

Iwamoto, E.
– 74
Iwamoto, T. 290
– 396
Iwasaki, K. 178
Iwasaki, M. 478
Iwata, T. 266
Iyengar, G. V. 696 Or
– 723 Or
Izawa, K. 175
Izquierdo, A. 271
– 377

J

Jackman, G. P. 199
Jackson, R. L. 594
Jackson, S. K. 594
Jackson, W. P. 456
Jackwerth, E. 57 Or
– 105 Or
– 528 Or
Jacob, J. 401 Or
Jacob III, P. 593
Jacobsson, O. 390
Jadhav, A. L. 263
Jaeger, H. 490
Jänchen, D. E. 265
Jaffar, M. 180
Jager, E. M. de 260
Jain, C. K. 169
Jakas, D. R. 400
Jakšič, M. 370
Jalhoom, M. G. 176
Jamali, F. 294
James, P. 389
James, R. H. 198
Janák, J. 77
Janata, J. 78
– 374
Janchenová, H. 376
Jandera, P. 275
Jang, G.-W. 69
Janghorbani, M. 484
Jankowiak, R. 281
Janota, D. 64
Janoušek, I. 177
Jansen, A. P. 162
– 576
Jansen, H. 488
Jansen, K. 397
Jansons, E. U. 171
Janssen, A. J. M. 396
Janssen, M. 464
Janssens, K. 167
Jansson, N. O. 195
Jarallah, A. M. 458
Jardim, W. F. 477
Jardy, A. 454
Jaroniec, M. 456
Jarosz, M. 375
Javůrek, M. 461
Jaya, S. 476
Jayaram, B. 189
Jecko, G. 340 Or
Jedral, W. 164
Jefferies, A. C. 381
Jefferson, A. 274
Jeffery, P. D. 399
Jeffrey, A. M. 281
Jeffs, P. W. 392
Jemal, M. 179
– 384
Jenkins, T. F. 183
Jennies, S. W. 387
Jennings, W. 457
– 478
Jensen, E. 487
Jensen, N. J. 467
Jernigan, A. D. 200
Jervis, R. E. 580
Jerzak, B. 271
Jerzykiewicz, W. 471
Jesus Tavares, M. 87
Jezorek, J. R. 572
Jiang, S.-J. 582
Jiménez, A. M. 583
Jimenez, M. A. 195
Jiménez-Arrabal, M. 579
Jimenez Linares, C. 587
Jimenez-Reyes, M. 72
Jiménez-Sánchez, J. C. 284
Jimenez-Trillo, J. L. 568
Jin, H.-L. 191
Jin, K. 53 Or
Jinno, K. 67
– 183
– 281
– 454
Joe, F. L., Jr. 92
– 93
– 283
Jörissen, U. 154 Or
Johansson, E. 83
Johansson, G. 79
– 291
Johansson, K.-E. 292
Johnson, B. P. 165
Johnson, C. R. 267
Johnson, E. K. 265
Johnson, J. H. 95
Johnson, J. V. 179
Johnson, W. C., Jr. 103
Jonas, D. 191
Jones, A. J. M. 86
Jones, A. M. 192
Jones, A. W. 484
Jones, B. A. 174
Jones, B. T. 273
Jones, K. W. 742 Or
Jones, L. 378
Jones, M. H. 274
Jones, R. C. 180
Jones, T. P. 479
Jones, W. M. 369
Jong, G. J. de 454
Jonsson, G. P. 292
Jordan, J.-C. 188
Jordan J. W. 263
Jordanov, N. 536 Or
Jork, H. 159
Josefsson, B. 268
Josefsson, M. 588
Joshi, A. 493
Joshi, A. P. 375
Joshi, G. C. 273
Josowicz, M. 78
Jost, W. 194
Jouve, J. 291
Jovanovič, M. S. 190
Jowett, P. L. H. 290
Joy, K. 184
Jumaev, A. R. 263
Jun, H. W. 197
– 199
Jundt, F. 163
Jung, D. 197
Junger, K. D. 489
Juntto, S. 171
Jurczak, J. 582
Jurs, P. C. 282
Just, L. 278
Justice, J. B., Jr. 394

K

Kaandorp, B. 481
Kaay, M. van der 491
Kabanova, O. L. 172
Kabil, M. A. 463
Kacprzak, J. 494
Kaczmarczyk, J. H. 273
Kadish, K. M. 572
Kadry, A. M. 164
– 460
Kafka, Z. 760 Or
Kagel, R. A. 277
Kagi, R. I. 272
Kahle, V. 201
Kai, F. 462
Kai, M. 102
Kaihara, A. 101
Kaiser, R. E. 61
– 266
Kaisersberger, E. 383
Kajiyama, K. 186
Kakehi, K. 269
Kakimoto, T. 175
Kakizaki, T. 214 Or
Kako, H. 382
Kalchenko, O. I. 387
Kalcher, K. 464
Kalidas, K. 72
Kalinowski, K. 580
Kaliwoda, G. 297
Kalnoski, M. H. 486
Kalow, W. 200
Kalyazin, E. P. 173
Kamal, M. M. 146 Or
Kamataki, T. 400
Kamelin, V. V. 72
Kamensky, I. 292
Kametani, K. 277
Kamm, K. 373
Kamp, R. 294
Kampen, E. J. van 162
Kaneda, N. 291
Kaneda, T. 467
Kanfer, I. 295
Kang, S. W. 78
Kaniansky, D. 476
– 572
Kanitz, S. 280
Kántor, T. 177
Kao, D. M. 465
Kaplan, B. Ya. 80
Kaplan, J. G. 596
Kaplin, A. A. 82
Kapoulas, V. M. 481
Kar, S. B. 577
Karatzas, C. N. 195
Karavaev, A. D. 171
Karbue, I. 396
Kargacin, M. E. 570
Kargman, V. B. 386
– 458
Karlberg, B. 460
Karlesky, D. L. 184
Karlson, U. 473
Karpukova, O. M. 569
Karube, I. 99
– 100
Kashkin, A. P. 98
Kasiura, K. 69
Kassel, D. B. 592
Kaštelan-Macan, M. 275
Katai, M. 93
Katan, M. B. 699 Or
Kataoka, H. 101
Kataoka, M. 465
Katayama, K. 196
– 398
Katayama, Y. 374
Kateman, G. 165
– 167
– 203 Or
– 576
Kato, H. 70
Kato, K. 524 Or
Kato, M. 571
Kato, R. 400
Kato, S. 393
Kato, Y. 65
Katrukha, S. P. 485
Katsumata, M. 494
Kattner, G. 196
– 354 Or
Katyal, M. 72
– 379
– 580
Katz, S. 594
Katz, S. A. 387
Kauffmann, E. 391
Kauffmann, J. M. 588
Kaufmann, H. 453
Kavipurapu, C. S. 177
Kawahara, A. 362 Or
– 460
Kawahara, F. 491
Kawai, H. 385
Kawakubo, S. 74
Kawamura, H. 175
– 590
Kawanishi, Y. 201
– 486
Kawasaki, T. 201
Kawase, A. 379
Kawashima, M. 571
Kazachevskii, I. V. 570
Kazakevitch, Yu. V. 271
Kazakov, V. P. 74
– 171
Kazanova, N. N. 167
Kazyak, L. 85
Keane, J. M. 173
Keats, N. G. 296
Kebarle, P. 371
Kedziersky, B. 185
Keedy, F. H. 100
Keel, B. A. 591
Keeling, P. L. 389
Keen, C. L. 395
Keimig, T. L. 96
Kelemen, G. 485
Keler, T. 493
Keliher, P. N. 79
– 174
Keller, J. W. 268
Keller, R. A. 369
Kelly, P. A. 469
Kelnar, L. 479
Kempner, E. S. 595
Kemula, W. 572
Kennedy, J. A. 181
Kennedy, J. P. 62
Kennedy, M. J. 275
Kennedy, S. D. 371
Kennedy, S. W. 398
Kennerly, D. A. 293
Kenny, E. M. 178
Kerns, E. H. 294
– 295
Kesavan, V. 487
Keshavan, B. 80
– 379
Kettrup, A. 297
Khalifa, H. H. 188
Khalil, M. M. 86
Khalil, S. A. H. 461
Khalili, A. D. 195
Khalilov, K. F. 455
Khanna, P. P. 177
Khanna, S. K. 493
Kharif, Ya. L. 382
Kharlamov, I. P. 83
Khasawneh, I. M. 270
– 582
Khattech, I. 179
– 384
Khayyal, S. E. 393
Khokhlova, N. L. 171
Khopkar, S. M. 88
Khopkar, S. M.
– 584
Kiba, N. 485
Kieber, D. J. 182
Kielak, B. 268
Kientz, C. E. 94
Kieras, F. J. 397
Kieser, M. 195
Kihara, K. 102
Kihara, S. 175
Kiiver, T. 390
Kikkert, J. 370
Kikuchi, T. 80
– 299
Kiliç, E. 574
Killops, S. D. 83
– 281
Kim, E. M. 381
Kim, H.-Y. 397
Kim, Y.-T. 459
Kimberley, M. M. 290
Kimberly, M. M. 192
Kimura, J. 380
Kimura, K. 478
– 576
Kimura, M. 172
Kimura, Y. 473
King, J. C. 102
King, L. C. 286
King, M. G. 296
Kingsbury, W. D. 400
Kinoshita, T. 100
Kipplinger, A. 260
Kirilova, S. P. 83
Kirk, K. L. 290
Kirkbright, G. 723 Or
Kirkbright, G. F. 567
Kirret, O. 456
Kirschbaum, J. J. 66
Kirstein, D. 291
Kiryushov, V. N. 383
Kiselev, A. V. 194
Kishimoto, T. 595
Kiso, Y. 372
Kiss, E. 179
Kissin, Y. V. 269
Kis-Varga, M. 176
Kitada, Y. 586
Kitamori, T. 579
Kitamura, K. 172
Kitamura, T. 65
Kito, M. 397
Kiuchi, K. 494
Klaessens, J. 167
– 203 Or
Klainer, S. M. 165
Klapper, D. G. 485
Klein, P. D. 590
Klemedtsson, L. 89
Kligerman, M. 201
Klimov, K. N. 85
Klock, P. R. 179
Klockenkämper, R. 105 Or
Klockow, D. 5 Or
Klotz, H. 155 Or
Kmiotek, W. 296
Knapp, G. 69
– 142 Or
– 723 Or
Knecht, U. 25 Or
Knight, C. H. 175
Knighton, D. R. 397
Knighton, W. B. 468
Knoll, E. 194
Knoll, F. 288
Knoll, J. E. 474
Knox, J. P. 100
Knupp, G. 191
Kny, E. 176
Kobayashi, E. 289

Kobayashi, K. 382
Kobayashi, N. 478
Kobayashi, T. 562 Or
Kobayashi, Y. 82
– 380
Koch, K. H. 520 Or
Koch, K. R. 378
Koch, T. 67
Kochak, G. M. 295
Kodama, Y. 194
Koehler, P. 536 Or
König, Th. 371
Koepke, S. R. 488
Koh, T. 463
Kohlmeier, M. 196
Kohno, T. 99
Koide, M. 386
Koifman, M. D. 81
Koike, T. 101
Kojima, I. 382
– 579
Kojima, T. 271
Kok, G. L. 277
Kok, W. T. 295
Kok, W. Th. 390
Kokk, Kh. Yu. 280
Kolaitis, L. 570
Kolarz, B. N. 261
Kolesnikova, A. M. 81
Kolesnikova, A. S. 575
Kolev, S. D. 373
Kolmogorov, Yu. P. 64
Kolomiiski, Yu. R. 64
Koloshnikov, V. G. 64
Kolpakova, N. A. 82
Komatsu, S. 197
– 293
Komleva, V. I. 585
Komljenović, J. 573
Komori, T. 380
Komy, Z. 180
Konev, A. V. 569
Konishi, T. 269
Konishi, Y. 94
Konno, H. 380
Konopski, L. 271
Kopaciewicz, W. 261
– 485
Kopanica, M. 586
Kopanskaya, L. S. 74
– 81
Kopecký, J. 390
Kopečni, M. M. 264
Koppenhoefer, B. 78
– 434 Or
Kopriva, A. J. 456
Korany, M. A. 287
Korhonen, I. O. O. 79
– 173
– 270
Kornet, M. J. 482
Korniski, T. J. 180
Korolev, A. A. 68
Kosaka, E. 168
Kościelniak, P. 567
Koscielski, T. 582
Koshishi, I. 103
Kosinski, M. A. 369
Kostalas, H. 580
Kosyak, A. M. 85
Kothen, K. H. 232 Or
Kouimtzis, Th. A. 461
Kountourellis, J. E. 391
Koupparis, M. A. 287
– 490
Kouřilová, D. 64
Kovacic, N. 49 Or
Kovacic, N. D. 59 Or
Kovács, P. 176
Kovalev, G. V. 173
Kovář, J. 201
Kovel'man, I. R. 93
Kovtunenko, P. V. 382
Kowalski, B. R. 373
– 564
– 570
Kozloski, R. P. 389
– 458
Kozlova, G. G. 84
Kozub, G. I. 284
Kraak, J. C. 66
– 571
Krajewska, A. M. 481
Krasnova, N. S. 284
Kratochvil, B. 270
Kraus, G. 269
Krause, S. A. 70
Krauss, G. J. 596
Krawczyk, W. 268
Krejči,M. 64
Krishnama Charyulu, J. 578
Krishnamurthy, M. 465
Krishnamurthy, T. 94
Krivan, V. 176
Krivanek, M. 594
Křivánková, L. 286
Krivolapov, S. S. 581
Kříž, J. 272
Kröplien, U. 189
Kromidas, St. 371
Krstulović, A. M. 391
Kruger, B. J. 76
Krull, I. S. 394
– 465
Krull, U. J. 71
Krupčik, J. 269
Kryger, L. 378
– 573
Krysell, M. 458
Krznarić, D. 202
Kuan, S. S. 90
Kubab, N. 467
Kubena, L. F. 186
Kublik, Z. 459
– 469
Kubo, I. 99
– 100
– 197
– 293
Kubo, T. 295
Kubota, M. 379
Kubota, T. 181
Kubota, Y. 102
Kuchen, A. 747 Or
Kucherenko, R. V. 285
Kuchhal, R. K. 273
Kuchkarev, E. A. 73
Kuczumow, A. 163
Kudo, I. 476
Kudrjashov, L. I. 485
Küster-Thiel 368
Kukes, V. G. 485
Kuksis, A. 592
Kukushkin, V. S. 387
Kulatunga, R. 371
Kulebakina, V. V. 593
Kulikov, N. S. 194
Kulipanov, G. N. 64
Kulkarni, K. R. 574
Kulkarni, S. Y. 582
Kumagai, H. 494
Kumagai, T. 461
Kumamaru, T. 577
Kumamura, T. 75
Kumar, A. 464
Kumar, B. 273
Kumar, P. 273
Kumar, Sa. 169
Kumar, Su. 169
Kumari, J. K. 171
Kumpulainen, J. 684 Or
Kunhipurayil, P. S. 588
Kunicka, I. S. 171
Kunimoto, M. 594
Kuninori, T. 185
Kupfer, M. 774 Or
Kurata, N. 381
Kurihara, S. 290
Kuroda, R. 156 Or
– 384
Kuroki, H. 297
Kuroki, M. 470
Kurskii, A. N. 88
Kurzawa, J. 172
Kurzawa, Z. 172
Kusajima, H. 491
Kushita, K. 71
Kushwaha, S. C. 94
Kuss, E. 97
Kusz, P. 471
Kutseva, N. K. 77
Kuwabara, H. 84
Kuwajima, M. 183
– 281
Kuwamoto, T. 269
– 378
Kuwata, S. 70
Kuwatsuka, S. 89
Kuznetsov, A. A. 461
Kuznetsov, R. A. 173
Kuzovkina, E. V. 578
Kwon, D. Y. 187
Kwong, E. 594

L

Laack, H. L. J. M. van 396
Labadarios, D. 468
Labar, Ch. 382
Labarre, D. 274
Labouesse, B. 101
LaBrecque, J. J. 88
Lacché, D. 484
Lacey, R. F. 265
Lachatre, G. 491
LaCourse, D. L. 180
La Cruz O., L. 591
Ladányi, L. 97
Ladenburg, K. 586
Ladisch, M. R. 273
Lämmler, C. 25 Or
Läubli, T. 264
Lagarias, J. C. 488
Lagerkvist, S. 268
Lai, M.-T. 573
Laikind, P. K. 296
Laila, A. A. R. 385
Lakeman, J. 167
Lam, K. K. 299
Lam, S. 101
Lamache, M. 274
Lambert, W. E. 488
Lamberts, L. 382
Lamiable, D. 199
Lamm, B. 391
Lamothe, P. J. 178
– 179
Lamy, F. 397
Lanças, F. M. 184
Landa, B. 485
Landgrebe, M. E. 371
Landy, J. S. 66
Lang, H. R. M. 201
Lang, J. K. 487
Langer, S. H. 572
Langmyhr, F. J. 567
Langseth, W. 381
Lanneluc-Sanson, D. 186
Lanza, P. 382
Laorden, M. V. 169
Laouenan, A. 169
Lapeza, C. R., Jr. 297
Lapin, B. P. 478
Lapitskaya, S. K. 86
Larin, N. V. 163
Larina, N. I. 86
LaRose, J. E. 92
Larsen, B. S. 84
Lascelles, P. T. 588
Latriano, L. 193
Lau, B. P.-Y. 479
Lau, O.-W. 481
Laub, R. J. 264
Lauback, R. G. 392
Laude, D. A., Jr. 69
Lauren, D. R. 89
– 487
Laureri, C. F. 592
Lautenschläger, W. 161
Lavagnini, I. 475
Lavi, N. 730 Or
Lavrenova, A. S. 471
Law, B. 96
– 286
Lawal, A. A. 491
Lawrence, D. A. 193
Lawrence, J. F. 479
Lawson, K. 265
– 457
Lazarev, A. I. 81
Lazarev, A. N. 72
Lazareva, V. I. 72
– 81
Lazaris, A. Ya. 86
Lazaro, F. 479
Lazarus, R. A. 592
Lazrus, A. L. 277
Leadbetter, M. G. 390
Leasure, C. S. 369
– 569
Leathard, D. A. 281
Le Bihan, A. 182
Leclerc, D. F. 165
Lecompte, D. 98
Ledoux, M. 397
Lee, C. E. F. 200
Lee, C.-S. 175
Lee, E. D. 590
Lee, H.-B. 285
Lee, M. 202
Lee, M. L. 174
– 263
– 264
– 282
– 456
Lee, T. W. 187
Lee, Y.-C. 95
Leenheer, A. P. de 488
Leer, E. W. B. de 474
Leeuw, J. W. 474
Lefevere, M. F. 488
Lefevre, C. 180
LeGatt, D. F. 198
Legg, J. I. 195
Leggett, D. C. 183
Legrand, G. 383
Lehmann, R. 70
– 275
Lehnert, G. 643 Or
Lehotay, J. 91
Le Houillier, R. 378
Lehrer, M. 297
Leinfelder, J. L. 490
Leisola, M. S. A. 100
Lelord, G. 291
Lenchik, N. V. 94
– 492
Lenders, J. W. M. 290
Lenkey, B. 484
Leon, A. A. 493
León, L. E. 164
Leonard, M. A. 70
Leont'eva, E. I. 474
Lépine, L. 169
Lepom, P. 91
Leppinen, J. 471
Leroi, G. E. 176
Leroy, M. J. F. 163
– 591
Leroy, Y. 104
Leschber, R. 33 Or
Lester, J. N. 477
Leszko, M. 168
Letcher, T. M. 458
Letoffe, J. M. 371
Leussing, D. L. 593
Le Van So 260
Levi, H. 258
Levillain, P. 162
Levin, M. G. 568
Levin, S. 571
Levine, B. 396
Levine, S. P. 388
– 479
Levinskaya, O. A. 86
Levsen, K. 43 Or
Levy, J. M. 470
Lewandowski, R. 168
Lewenstam, A. 165
– 168
– 308 Or
Lewis, A. G. 279
Lewis, R. G. 179
Leyden, D. E. 162
– 569
Li, X. 456
Liberti, A. 179
– 183
Licht, K. 536 Or
Lichte, F. E. 88
Liddle, J. A. 297
– 493
Lieser, K. H. 74
– 168
– 237 Or
Lieth, H. 716 Or
Ligny, C. L. de 66
– 372
Ligon, W. V., Jr. 265
– 282
Lill, G. 135 Or
Lilley, T. 369
Lim, H. K. 295
Lim, J. K. 287
Lima, C. G. de 271
Lima, J. L. F. C. 460
– 461
Lin, D. G. 86
Lin, J. K. 273
Lin, J. T. 85
Lin, R. C. 486
Lin, X. Q. 572
Linares, C. J. 170
Lin Chang-shan 579
Lincoln, B. 297
Lind, B. 647 Or
Lind, J. A. 277
Lind, R. J. 166
Lindberg, M. S. L. 292
Lintz, W. 197
Lipniak, M. 157 Or
Lipsky, S. R. 457
Lisichkin, G. V. 65
– 372
Liška, O. 91
Lister, B. 576
Littlejohn, D. 77
Liu, Z.-Q. 65
Liu Heng-chuan 777 Or
Liu Jun-mi 777 Or

Livardjani, F. 591
Li-Ying Lin 372
Llanos, A. 178
Llobat-Estelles, M. 170
Lobb, R. R. 494
Lochmüller, C. H. 70
– 474
Lockhart, D. 490
Lodge, B. A. 393
Lodi, S. 595
Loenen, A. C. van 490
Lönnerdal, B. 395
Loetscher, P. 201
Loginov, Yu. M. 64
Lohmander, L. S. 195
Long, S. E. 569
Longhi, P. 574
Lontoc, A. V. 673 Or
Looker, J. H. 486
Loon, J. van 278
López, A. 586
Lopez, F. J. 73
– 286
López de Alba, P. L. 375
Loppinet, V. 98
Lora-Tamayo, C. 94
Lorber, A. 166
Lord, S. E. 367
Lorentz, K. 292
Lorman, T. H. 77
Lorusso, S. 284
Louis, W. J. 491
Lovering, E. G. 190
– 274
Lovett, R. J. 73
Lowry, S. R. 388
– 479
Loyaux, D. 391
Lu, Z. D. 400
Lub, T. T. 162
– 165
Lubert, K.-H. 462
Lubman, D. M. 370
– 570
Luca, C. 86
Luchinat, C. 566
Ludwig, B. M. 188
Ludwig, F. J., Sr. 472
Lück, E. 366
Luk, S.-F. 481
Lukovits, F. S. 287
Luna, E. 164
Lund, W. 472
Lundanes, E. 470
Lundbäck, H. 79
Lung, K. R. 70
Lunskii, M. K. 469
Luque de Castro, M. D. 479
– 578
Lurie, I. S. 394
Luthardt, M. 331 Or
Lutz, D. 490
Lygre, T. 492
Lynn, J. G. 484
Lynn, R. K. 198
Lyon, P. A. 184
Lytle, F. E. 288

M

Maarse, H. 259
– 479
Macášek, F. 572
Macca, C. 559 Or
Macek, J. 396
Macfarlane, R. D. 276
Machado, A. A. S. C. 460
Macheras, P. E. 490
Macholán, L. 390
MacKenzie, S. L. 268
MacKenzie, S. L.
– 291
Macko, T. 373
MacNeil, L. 392
Madec, C. 182
Made Gowda, N. M. 189
Madson, M. A. 467
Maeda, M. 467
Maeda, Y. 386
Maekawa, M. 595
Maenhaut, W. 736 Or
Maes, R. A. A. 493
Magalhães, A. M. T. 89
Magee, R. J. 280
– 350 Or
Magnatti, P. 89
Magno, F. 276
Maguire, J. H. 490
Magyar, B. 279
Mahedero, M. C. 463
Maher, W. 395
Mahieu, J.-P. 465
Mahler, K. O. 265
Mahmoud, J. S. 377
– 588
Mahuzier, G. 467
Maimó, J. 166
Maity, D. S. 71
– 465
– 475
Makarov, Yu. B. 88
Makarova, S. B. 458
– 580
Makita, A. 489
Makita, M. 101
Makjanic, M. 279
Malakhov, K. V. 163
Malakhov, V. V. 584
Malehorn, C. L. 568
Malik, A. 263
Malikov, D. A. 578
Malisch, R. 187
Malissa, H. 324 Or
Malkar, V. B. 96
Mallet, A. I. 200
Mallon, J. 491
Mallonn, E. 383
Malofeeva, G. I. 180
Maltby, D. A. 290
Malvankar, R. B. 466
Manchanda, V. K. 577
Mancini, G. 392
Manda, R. R. 177
Mandrou, B. 95
Manera, E. 287
– 589
Mangaghai, R. J. 382
Mangala, D. S. 190
Mangia, A. 392
– 578
Mann, C. K. 175
Mannan, A. 384
Mannen, N. 387
Manning, D. C. 168
Mannschreck, A. 372
Mantel, M. 730 Or
Manthorpe, M. 102
Manzo, R. H. 164
Marai, L. 592
March, J. G. 484
Marchal, J. 273
Marchandise, H. 613 Or
Marchetti, P. 199
Marcus, R. K. 80
Marczenko, Z. 564
– 580
Marczewski, C. Z. 369
Mareček, M. 376
Marek, B. 747 Or
Marek, M. 192
Maret, W. 566
Mariara, J. R. 161
Marichy, M. 95
Marin, R. 73
Marina, M. L. 261
– 572
Mariotte, N. 291
Maris, F. A. 454
– 483
Maritzen, W. 176
Mark, H. 568
Markert, B. 716 Or
Markides, K. E. 263
– 264
– 456
Markova, E. I. 276
Markowicz, A. A. 370
Markowski, W. 456
Marks, V. 398
Markuszewski, R. 82
– 83
– 575
Marrella, M. 192
Marshall, D. B. 65
Marshall, G. B. 474
Mårtensson, J. 193
Martin, C. R. 276
Martin, G. B. 574
Martin, G. W. 260
Martineau, J. 291
Martínez, A. 465
Martinez Vaya, M. C. 72
Martini, K. 58 Or
Marty, A. 288
Maruyama, K. 187
Masada, M. 299
Mashkevich, I. V. 85
Maslova, N. M. 173
Masłowska, J. 463
Mason, C. F. 584
Masoom, M. 396
Maspoch, S. 463
Massart, D. L. 167
– 190
Masuda, Y. 297
Masumoto, K. 492
– 570
Matano, O. 90
Matchat, R. 536 Or
Matherat, P. 572
Mathijs, E. 388
Mathur, H. S. 273
Mathys, G. I. 86
Matook, G. M. 193
Matousek, J. P. 567
Matsuda, K. 202
Matsuhisa, K. 476
Matsui, F. 274
Matsui, M. 384
Matsul', V. M. 569
Matsumoto, A. 478
Matsumoto, K. 492
Matsumura, T. 277
Matsumura, Y. 380
Matsunaga, K. 476
Matsunaga, R. 290
Matsuo, H. 75
– 577
Matsuura, S. 299
Matsuzawa, Y. 156 Or
Mattern, E. M. 480
Matthews, R. R. 84
Matthiesen, U. 180
– 476
Mattie, H. 491
Matulenko, M. 165
Matusiewicz, H. 63
Matuszak, H. 168
Matyashev, V. G. 83
Maughan, R. J. 196
Mauldin, S. K. 392
Maume, G. 488
Mauras, Y. 490
Maurer, H. 565
Mauri, P. 98
– 587
Mawhinney, T. P. 467
Maxwell, J. R. 470
May, K. 510 Or
May, R. J. 265
– 282
Mayr, K. 185
Mazzo, D. J. 190
– 588
McBurney, L. J. 493
McCall, J. W. 199
McCarthy, J. P. 186
McClanahan, J. S. 490
McCleary, B. V. 184
McCloskey, J. A. 79
McConnell, J. H. 478
McCormack, J. J. 199
McCoy, R. W. 260
McCreery, M. J. 595
McCreery, R. L. 459
McDaniel, D. D. 184
McDonald, G. R. 374
McDonald, R. A. 296
McErlane, K. M. 594
McGahan, M. C. 193
McGown, L. B. 96
– 99
– 370
McHugh, J. B. 279
McKerrell, E. H. 276
McKinnon, A. 479
McLachlan, N. M. 85
McLaren, K. G. 83
McLaren, S. E. 277
McLaughlin, A. M. 95
McLean, D. D. 383
Mclean, M. 179
McLeod, R. A. 297
McNair, H. M. 457
McNally, W. P. 742 Or
McNaughton, D. E. 487
McNeal, C. J. 276
McNeil, C. J. 197
McQueen, C. A. 100
McWeeny, D. J. 283
Meal, L. 85
Means, J. C. 274
Measures, C. I. 477
Medina, J. 73
– 286
Medina-Escriche, J. 170
Medinilla, J. 77
– 575
Meduna, J. U. 558 Or
Medvedev, A. M. 460
Meguri, H. 93
Mehra, M. C. 72
– 464
– 576
Mehran, M. 173
– 478
Mehran, M. F. 457
Meier, A. L. 477
Meineke, I. 197
Meira, G. R. 373
Meisch, H.-U. 268
Melis, M. 394
Meloan, C. E. 70
Meloni, S. 580
Meloun, M. 461
Melton, L. A. 84
Memom, M. H. 78
Mendes, I. A. 464
Mendez, A. J. 293
Méndez-Alvarez, E. 100
Mendham, D. 182
Meng-Shan Lin 589
Menon, S. K. 377
– 583
Mentasti, E. 463
Merat, D. L. 494
Merian, E. 367
Meringova, L. F. 98
Mermet, J. M. 265
Mermet, M. 375
Merril, C. R. 486
Mertz, D. P. 293
Mertz, W. 618 Or
Merwe, H. M. van der 491
Metelev, A. Yu. 87
Metrione, R. M. 194
Meuth, J. L. 101
Mewa Singh 376
Meyer, V. R. 65
Meyerhoff, M. E. 288
– 393
– 574
Mežaraups, G. P. 171
Mezin, N. 180
Michels, K. 389
Michlewicz, K. G. 76
Middelkoop, C. M. 372
Midgett, M. R. 474
Midha, K. K. 295
Migita, J. 296
Mihailova, S. 492
Mikasa, H. 476
Mikelsons, M. V. 377
Mikhailov, G. D. 85
Milana, M. R. 284
Milanino, R. 192
Milanovich, F. P. 165
Milla, M. 95
Millart, H. 199
Miller, A. W. 596
Miller, B. J. 93
Miller, J. C. 376
Miller, J. H. 595
Miller, M. J. 100
Miller, R. L. 295
Miller-Ihli, N. J. 702 Or
Miller Schantz, N. 282
Millington, D. S. 290
Millot, M. C. 465
Mills, J. C. 178
Mills, M. H. 296
Milonjić, S. 585
Milonjić, S. K. 264
Milthorpe, P. L. 184
Milyukova, M. S. 578
Miosga, N. 296
Mishalanie, E. A. 172
Misharina, T. A. 581
Mishima, K. 489
Mitchell, C. A. 272
Mitchell, J. W. 278
Miterová, L. 396
Mithapara, P. D. 578
Mitiska, J. 284
Mito, N. 464
Miura, Y. 463
Miwa, T. 278
Miyagoshi, M. 97
Miyashita, Y. 189
Miyazaki, A. 278
Miyazaki, H. 594
Mizuguchi, S. 594
Mizuike, A. 278
Mizuno, T. 262
Mo, D. 161
Mocaer, E. 491
Mocák, J. 269
Mocali, A. 400
Mochi, T. 101
Mönch, W. 180

Mönch, W.
– 476
Moerloose, P. de 95
– 589
Moffat, A. C. 286
– 588
Moffett, J. H. 481
Mogilnicka, E. 491
Mohamad, A. H. 184
Mohammad, A. 266
– 376
Mohammed, D. A. 275
Mohan Rao, A. M. 180
Mohnke, M. 387
Moiseev, A. N. 84
Mokhtar, M. B. 279
Momose, T. 488
Mompon, B. 391
Monasterios, C. V. 192
Mongay Fernandez, C. 72
Montag, A. 480
Montani, S. 388
Montecucchi, P. C. 195
Monteiro, A. M. 487
Montelaro, R. C. 594
Montiel, A. 567
Montreuil, J. 104
Moodie, I. M. 468
Moody, G. J. 269
– 461
– 483
Moore, J. M. 394
Mopper, K. 182
Moradi-Araghi, A. 472
Morel, D. 371
Morelli, B. 379
Morelli, J. J. 482
Moreno, J. 287
Moreno, P. 280
Morgan, C. 198
Morgan, E. D. 267
Mori, G. 578
Mori, K. 276
Mori, S. 472
– 571
Mori, T. 99
Moriizumi, T. 100
Morikawa, H. 379
Morishige, K. 182
– 384
Morishita, F. 271
Morita, T. 454
Morris, C. E. 571
Morris, M. D. 162
Morrison, G. H. 394
Mortier, R. 584
Moschel, R. C. 488
Moskaliuk, K. 275
Moskvin, L. N. 474
Moss, C. W. 483
Moss, L. 202
Mostafa, M. M. 463
Motojima, K. 171
– 579
Motomizu, S. 476
Motooka, I. 382
Motozato, Y. 261
Mottola, H. A. 78
Moumtzis, I. 581
Mourer, C. R. 483
Mourey, T. H. 262
– 275
Movaseghi, H. 578
Moy, R. 573
Mroch, D. R. 82
Muccino, R. R. 367
Mühl, P. 574
Müller, G. 472
Müller, H. 378
– 389
Müller, K. 69
Müller, V. 378
Müller-Matthesius, R. 195
Muh, J. P. 291
Muhammad, N. 392
Muir, H. 195
Mulcahy, D. E. 476
Mulé, S. J. 297
Mulholland, M. 481
Mulik, J. D. 179
Mullen, W. H. 100
Muller, C. D. 288
Muller, J. 180
– 386
Mullin, J. L. 167
Munita, C. S. 175
Munk, M. E. 166
Munkholm, C. 165
Munos de la Pena, A. 461
Muñoz de la Peñe, A. 575
Munoz-Leyva, J. A. 95
Munro, S. 283
Munson, B. 276
– 570
Munson, L. F. 575
Muntau, H. 414 Or
– 634 Or
– 658
Murakami, T. 286
Murakhovskaya, A. S. 575
Muralikrishna, U. 465
Muramatsu, Y. 601 Or
Murata, A. 578
Murata, T. 68
Murayama, K. 100
– 102
Murel, A. 456
Murillo, J. A. 461
– 575
Murozumi, M. 386
Murphy, R. C. 291
Murray, M. G. 399
Murthy, R. S. S. 85
– 569
Murthy, R. V. V. S. 390
Murty, N. K. 72
– 375
– 463
Musch, G. 190
Musha, K. 84
Mushak, P. 591
Musić, S. 462
Mussini, T. 574
Muto, H. 175
Muto, M. 570
Muto, Y. 202
Muzher, E. S. 79
Myasoedov, B. F. 91
– 578
Myasoedova, G. V. 91
– 585
Myung Ho Hyun 467

N

Nabelek, P. I. 384
Nabivach, V. M. 68
Nabivanets, B. I. 83
Nadahara, S. 80
Nadkarni, A. D. 96
Nadkarni, M. N. 274
Nagahiro, T. 72
Nagaoka, T. 164
– 459
Nagaraja, P. 80
– 379
Nagashima, H. 289
Nagatsu, T. 291
– 299
– 494
Nagimullina, A. G. 69
Nagj, M. 279
Nagy, V. Yu. 382
Naikwadi, K. P. 263
Naizhong, Z. 457
Nakagawa, F. 492
Nakagawa, G. 69
– 584
Nakagawa, T. 101
– 199
Nakagawa, Y. 398
Nakajima, A. 296
Nakajima, K. 99
Nakako, M. 467
Nakamura, A. 94
Nakamura, E. 278
Nakamura, M. 181
– 266
– 290
– 462
– 492
Nakamura, N. 100
Nakamura, S. 386
– 462
Nakamura, Y. 82
– 176
– 380
– 381
– 562 Or
Nakanishi, K. 189
Nakanishi, T. 579
Nakaoka, A. 482
Nakaoka, M. 199
Nakashizuka, T. 292
Nakata, F. 75
Nakatsu, K. 493
Nakazawa, H. 586
Nambara, T. 200
– 488
Namieśnik, J. 387
Namiki, H. 278
Namiki, M. 380
Nánási, P. 484
Nancollas, G. H. 592
(Nandi) Gangula, B. 376
Napier, J. R. 397
Nara, S. 478
Nara, T. 384
Naranjo, O. R. 591
Narasimhachari, N. 485
Narayana, D. G. S. 469
Nardelli, C. A. 92
Nariai, H. 382
Narita, H. 397
Nash, R. J. 586
Natarajan, P. R. 578
Nataro, N. 174
Nath, N. 64
Nau, H. 488
Naujack, K.-W. 188
– 401 Or
Naumer, H. 365
Navalesi, R. 199
Navaratnam, S. 200
Navas, M. J. 378
– 568
Navratil, P. R. 590
Nayak, V. G. 96
– 393
Nebinger, P. 299
Nedugova, G. A. 81
Neeb, R. 365
– 766 Or
Needham, L. L. 297
– 493
Neely, W. C. 170
Neer, Th. C. H. van 390
Neff, H. 273
Neff, W. E. 397
Nel, I. 378
Němec, I. 96
Nentwig, J. 79
Nerger, M. 33 Or
Netravalkar, A. J. 180
Neubauer, D. 586
Neukom, H. P. 264
– 294
Newbury, D. E. 64
Newland, P. 96
Newman, E. M. 197
Newton, J. A. 200
Newton, R. T. 92
Neya, S. 455
Ng, A. S. K. 102
Ng, K. C. 477
Ng, K. J. 396
Ng, K. T. 294
– 490
Ngeh-Ngwainbi, J. 90
Nguyen, Q. 195
Nguyen, T. T. 186
Nguyen Quy Dao 162
Ni, Z.-ming 419 Or
Nicolas, J.-C. 487
Nicot, G. 491
Nieass, C. S. 261
Nielsen, H. 483
Nielsen, P. F. 292
Nieman, T. A. 592
Niemczyk, T. M. 74
– 583
Nies, H. 279
Niessen, W. M. A. 262
– 456
Nietering, K. E. 584
Nieto, J. L. 169
– 195
Nieuwkerk, H. J. van 571
Niewola, Z. 285
Nikolenko, I. P. 73
Nilsson, B. 647 Or
Ninnemann, H. 489
Nishi, H. 175
Nishi, S. 183
Nishikawa, Y. 182
– 271
– 384
Nishimura, Y. 381
Nishioka, H. 386
Nishioka, M. 174
Nishiyama, J. 185
Nissinen, E. 489
Nitz, S. 69
Nixon, R. A. 99
Nobile, L. 484
Noël, D. 472
Noever de Brauw, M. C. ten 493
Noggle, F. T., Jr. 590
Nohta, H. 202
Nojiri, Y. 181
Nolan, C. V. 297
Nomura, N. 577
Nomura, T. 71
– 73
Nooitgedacht, F. 264
Norfleet, A. L. 201
Norman, T. R. 198
Norwitz, G. 79
– 174
Nostrand, M. van 596
Nova Acta Leopoldina 453
Novák, J. 84
Novikov, E. A. 573
Novotny, M. 67
Novotorov, Yu. N. 85
Novotorova, L. G. 85
Nowarini, A. 592
Nowotny, A. 493
Nozal, M. J. del 479
Núñez-Vergara, L. J. 97
Nurchi, V. 165
Nuridsány, M. 200
Nurok, D. 265
Nurthen, E. J. 184
Nyholm, L. 459

O

Oattaviani, M. 89
Obach, R. 287
Obol'yaninova, V. G. 89
Oborn, R. E. 266
Obtemperanskaya, S. I. 267
Ochiai, H. 103
Ochida, H. 491
Ochs, H. R. 198
Ockelmann, G. 385
O'Connell, G. R. 476
O'Connor, R. C. 297
Odashima, T. 464
Oddie, C. J. 199
Oddone, M. 580
Oelschläger, H. 127 Or
– 200
Oesch, U. 573
Oetelaar, P. J. M. van den 486
Özaltin, N. 287
Ogawa, H. 99
Ogawa, T. 79
– 201
– 486
Ogihara, Y. 97
Oguma, K. 156 Or
– 384
Ogunbona, F. A. 491
Ogura, K. 459
Ohishi, K. 101
Ohkubo, T. 189
Ohkura, Y. 102
– 202
– 266
– 290
– 492
– 595
Ohls, K. 520 Or
Ohmacht, R. 196
Ohnishi, N. 382
Ohno, Y. 186
Ohta, K. 132 Or
Ohtani, A. 199
Ohtsuka, I. 398
Ohura, H. 76
Ohura, R. 183
Ohyagi, Y. 387
Ohzeki, K. 465
– 476
Oida, A. 380
Okada, H. 386
Okada, S. 584
Okada, T. 269
– 573
Okaichi, T. 388
Okamoto, K. 622 Or
Okamoto, M. 183
Okamoto, Y. 571
– 577
Okamura, T. 569
Okano, T. 380
Okatake, M. 182
Okazaki, S. 377
Okochi, H. 176
– 381
– 562 Or
Okuhara, T. 73
Okumura, I. 384
Okumura, M. 540 Or
Okuno, F. 202
Okutani, T. 181
Olajos, S. 295
Olayinka, K. O. 283

Oldaker III, G. B. 474
Oldenborg, R. C. 177
O'Leary, G. P., Jr. 193
O'Leary, R. M. 88
Olieman, C. 187
Olivé, S. 62
Oliveira, W. A. de 473
Oliver, J. 290
Ollett, D. G. 267
Ollivon, M. 288
Olmez, H. 382
Olson, J. 485
Olson, J. A. 196
Olsson, B. 79
Omenetto, N. 568
Omichi, K. 299
Omile, C. I. 294
Omori, H. 292
Onishchenko, P. P. 86
Onishi, H. 61
Ono, M. 70
Onyeji, C. O. 491
Ooie, T. 491
Opdycke, W. N. 288
Opekar, F. 76
– 165
Oreshkin, V. N. 180
Orlic, I. 279
Orlić, I., Valković, V. 370
Orosz, F. 200
Orr, B. J. 567
Orren, D. K. 591
Orti, D. L. 493
Ortuno, J. A. 374
Orvini, E. 634 Or
– 658
Osajima, Y. 462
Osaki, S. 387
Osborn, J. A. 99
Osburn, W. 281
Osek, J. 80
– 268
Osgood, S. 485
Oshana, S. C. 596
Oshima, Y. 186
Osl, F. 389
Osteryoung, J. 465
– 573
Ostler, T. J. 169
Ostrom, G. S. 370
Ostrovský, I. 77
Oszczapowicz, J. 80
– 268
Otey, C. A. 486
Otjes, R. P. 162
Otomo, M. 579
Otsuki, A. 181
Ott, G. S. 298
Otto, G. 370
Otto, M. 166
– 167
Otwinowska, H. 469
Ovádi, J. 200
Overbura, K. C. 472
Owens, G. D. 587
Ozawa, T. 202
– 383
Ozretich, R. J. 474

P

Paakki, M. 684 Or
Paama, L. A. 280
Paaren, H. E. 399
Pacáková, V. 392
Pace, M. 587
Pacer, R. A. 585
Pacey, G. E. 476
Pachuta, S. J. 369
– 570
Pack, T. W. 282
Packer, L. 487
Padgett, K. L. 92
Padieu, P. 488
Padrnos-Hicks, P. A. 591
Page, S. W. 185
Paizanskaya, I. L. 469
Pál, F. 72
Pal, T. 71
– 465
– 475
Palmborg, J. 280
Palmer, C. P. 182
Palmieri, M. D. 175
Palo, C. di 183
Palou, A. 280
Pandey, L. P. 385
Panina, L. I. 458
Pank, M. 456
Pankova, M. 561 Or
Pankow, J. F. 478
Pansare, V. S. 466
– 582
Paoletti, F. 400
Papadoyannis, I. N. 95
– 200
Papanastasiou, G. 581
Papas, A. N. 262
Papoff, P. 77
– 461
Parameswaran, G. 473
Parashar, D. C. 376
Pardue, H. L. 594
Parekh, P. C. 580
Parente, E. S. 102
Parente, J. P. 104
Paris, N. 572
Paris, R. M. 272
Parker, C. D. 78
Parker, C. E. 456
Parks, O. W. 188
Parlow, A. 161
Parr, R. M. 601 Or
– 723 Or
Parry, K. W. 479
Parshi, A. K. 89
Parsons, H. 592
Paschal, D. C. 192
– 289
– 290
Pasitschniak, A. 473
Pasquini, C. 473
Pastor, A. 286
Pastore, T. C. M. 271
Pastorelli, N. 384
Pastushenko, B. G. 581
Pasutto, F. M. 294
Patel, A. A. 590
Patel, A. G. 590
Patel, K. S. 74
– 168
Patel, M. R. 590
Patel, R. B. 590
Patriarche, G. J. 588
Patterson, D. G. 297
Patterson, D. G., Jr. 297
Patterson, P. L. 265
Patterson, R. M. 469
Pauls, R. E. 260
Pavičić, J. 719 Or
Paynter, V. A. 586
Pearson, J. D. 103
Pechová, H. 266
Peck, H. 468
Pedersen, J. N. 166
Peibiao Li 169
Peinado, J. 293
– 374
– 580
Pella, P. A. 64
Pelletier, S. W. 586
Peltonen, K. 472
Peluso, P. 379
Pendley II, C. E. 293
Peneva, S. 358 Or
Peng, G. W. 389
Pennetier, J.-L. 572
Pentchuk, J. 480
Pereira, M. J. 292
Perez, G. 72
Perez, J. J. 277
Pérez-Bendito, D. 293
– 374
– 377
– 378
– 580
Pérez Ruiz, T. 374
Perkampus, H.-H. 564
Perkins, E. G. 187
Per'kov, I. G. 577
Perlman, S. 66
Perosa, D. 276
Perov, P. A. 276
Perrault, G. 475
Perry, J. 276
Perry, J. A. 587
Persson, J.-Å°. 83
Peták, P. 460
Petersen, R. C. 456
Petersson, B. 187
Petersson, B. A. 170
Petidier, A. 595
Petitfaux, C. 69
Petrova, M. L. 580
Petrucci, G. 345 Or
Petrůj, J. 273
Petrukhin, O. M. 74
– 180
– 382
Petsev, N. 458
Petterson, C. 588
Pfäffli, P. 475
Pflaum, R. T. 462
Pfleger, K. 565
Phan, C. T. 186
Phelan, R. M. 456
Philips, D. R. 96
Phillipou, G. 589
Phillips, C. M. 176
Phillips, G. O. 200
Phillips, T. D. 186
Piacentini, A. L. 193
– 595
Piall, E. M. 398
Piboule, M. 87
Pichugina, V. M. 82
Pickering, W. F. 76
Pielak, G. J. 195
Pierce, R. H. 470
Pierre, G. 467
Pierson, K. B. 395
Pieters, L. A. C. 393
Pietraszkiewicz, W. 278
Pietrogrande, A. 173
Pietta, P. 98
– 287
– 587
– 589
Pikulová, A. 266
Pilipenko, A. T. 280
Pilipyuk, Ya. S. 81
Pillutla, C. M. 177
Pimenov, A. M. 398
Pimenova, V. V. 93
Pind, N. 166
Pingarrón, J. M. 285
Pinilla Macías, J.-M. 182
Pinkerton, T. C. 377
– 579
– 587
Pintori, T. 165
Piotrowska, H. 469
Piovetti, L. 90
Pippin, C. G. 374
Pires Valente, A. L. 268
Pirkle, W. H. 175
– 467
Pisareva, N. A. 478
Pisichenko, G. M. 575
Pitoizet, N. 488
Pittmin, C. U., Jr. 270
Pitts, J. N., Jr. 365
Plattner, R. D. 397
Plaza, P. 162
Plehiers, P. M. 470
Plescia, M. 392
Ploeg, P. H. W. van der 162
Plomp, T. A. 493
Plotkin, S. A. 491
Pluscec, J. 392
Poey, J. 287
Poggi, G. 177
– 584
Pohl, B. 283
Pohl, C. A. 173
Pokhilo, N. D. 582
Pokorný, J. 282
Pokushalova, T. V. 582
Pollmann, H. 191
Polo Diez, L. M. 285
Polushkin, V. A. 83
Pomazanov, V. V. 593
Pons, A. 280
Pons, S. 374
Poole, C. F. 68
Poonam (Mrs.) 480
Popov, B. A. 83
Popowski, E. 466
Popp, P. 68
Poppe, H. 66
– 264
– 571
Porch, R. L. 282
Porta, V. 463
Porter, D. G. 574
Portugal, T. R. 673 Or
Posch, H. E. 376
Potluri, V. K. R. 463
Poulsen, J. R. 275
Poulsen, O. M. 489
Pournaghi-Azar, M. H. 575
Pouzar, V. 486
Powell, H. K. J. 181
Powell, L. D. 397
Powers, J. J. 481
Poznyak, V. L. 570
Prabhakar, L. D. 168
Pradeau, D. 79
Pradhan, B. D. 577
Prakash, K. M. M. S. 168
Prasad, U. V. 392
Prasad, V. K. 294
Prat, M. D. 271
– 377
Pratt, M. E. 486
Pratz, G. 283
Pravshin, Yu. S. 87
Predieri, G. 578
Preiss, I. L. 179
Preston, M. R. 281
Preti, S. 595
Pretorius, V. 264
– 265
– 457
Pretsch, E. 573
Price, A. H. 490
Price, W. E. 93
Priest, D. G. 400
– 487
Prieto, R. 287
Priha, E. 180
Priscu, J. C. 184
Prnka, V. 282
Provost, L. R. 399
Puig, P. 287
Pujol, J.-L. 572
Puma, B. J. 189
– 286
Pungor, E. 72
– 317 Or
– 373
Punning, K. 465
Punziano, R. 392
Purdy, W. C. 487
Puri, B. K. 378
– 464
– 576
– 577
– 579
– 580
Puskar, M. A. 388
– 479
Putilina, O. N. 180
Pyatnitskii, I. V. 81

Q

Qiu, X.-C. 386
Qiu, Xing-chu 473
Quarry, M. A. 67
– 262
Queirolo, C. 194
Quentel, F. 182
Quina, F. H. 395
Quirke, J. M. E. 179
Qureshi, I. H. 384

R

Rabadán, J. M. 374
Raber, D. J. 269
Rabilloud, T. 572
Radaev, V. N. 88
Radchenko, A. F. 280
Radcheno, A. F. 73
Radek, D. 272
Radić, N. 573
Radulovič, D. 190
– 393
Radwan, M. H. 284
Radziuk, B. 70
Räisänen, J. 163
Raggi, M. A. 484
Raghavan, S. 179
Raglione, T. V. 399
Rains, T. C. 170
Raith, B. 105 Or
Rajec, P. 572
Rajeshwar, K. 69
Rakhmonberdyev, A. D. 164
Raman, V. 376
Ramanujan, A. 274
Ramchand, C. N. 100
Ramdahl, T. 183
Ramey, C. W. 86
Ramiaramana, A. 95
Ramírez, A. A. 170
Ramírez, Oliva, E. 375
Ramis Ramos, G. 72
Ramnaraine, M. L. R. 174
Rams, M. A. 94
Ramsey, M. H. 63
Randall, L. 274
Rantwijk, F. van 104
Rao, G. P. 476
Rao, G. R. 390
Rao, N. V. 390
Rao, N. V. S. 72
Rao, S. J. 171
Rao, T. H. 81
Rao, T. P. 476
Rao, T. S. 485

Rao, V. J. 72
– 375
Rao, Y. P. 463
Raoot, S. 81
Rapp, A. 284
Rapp, U. 493
Rapsomanikis, S. 279
Raptouli, A. 391
Rasberry, S. D. 609 Or
Rasi, S. 399
Raspor, B. 719 Or
Rastegar, B. 163
Rastegar, F. 163
Rateike, J. D. 587
Ratge, D. 194
– 288
Rathaiah, G. V. 578
Ratnaraj, N. 588
Rauch, P. 192
Rava, A. 98
Ravindranath, P. 72
Ray, C. 579
Ray, J. D. 277
Ray, U. S. 577
Read, R. W. 399
Rechenberg, W. 247 Or
Rechnitz, G. A. 191
Recoskie, B. M. 175
– 176
Reddy, D. V. 168
– 172
Reddy, G. S. 171
Reddy, K. G. 172
Reddy, K. H. 172
Reddy, M. R. P. 462
Reddy, Y. K. 171
Redinbaugh, M. G. 103
Redinger, L. 470
Reece, C, A. 93
Reed, G. D. 457
Reggers, G. 180
Regnier, F. E. 485
Regnier F. E. 261
Reichardt, C. 165
Reiher, K. 536 Or
Reiher, T. 466
Reimerdes, E. H. 480
Reimert, S. 591
Reinauer, H. 295
Reiss, J. A. 96
Reitsma, B. H. 468
Rekik, L. 296
Ren, K. 71
– 166
Renaud, M. 394
Ren-Kurc, A. 166
Renosto, F. 591
Rensen, E. R. A. 187
Repka, D. 269
Reschiotto, C. 198
Rettberg, T. M. 369
Reuter, G. 397
Revilla, E. 284
Reynertson, R. 400
Reznikov, V. I. 455
Reznikova, Z. A. 458
Rhee, J. S. 187
Ricci, P. 493
Rice, J. J. 392
Richard, F. A. 392
Richardson, R. G. 83
Rico, M. 195
Riddle, G. O. 88
Rieder, R. I. 266
Riederer, M. 185
Riego, J. 269
Riehl, T. E. 568
Riekkola, M.-L. 171
Riel, J. A. M. van 187
Rigaud, M. 78
Rigin, V. I. 567
Rigney, J. P. 294
Rigo, A. 475
Řihová, M. 392
Riley, J. P. 386
Rimböck, K.-H. 372
Ríos, A. 578
Riscado, A. M. V. 174
Rittenhouse, C. T. 95
Rivers, M. L. 569
Rix, I. 98
Rizzi, A. 201
Roa, A. 97
Roach, J. A. G. 283
Robards, K. 174
Robertis, A. de 477
Roberts, C. A. 192
Roberts, D. C. 99
Roberts, G. D. 392
Robinett, R. S. R. 467
Robyt, J. F. 596
Rocheleau, R. E. 466
Rocklin, R. D. 173
Roda, A. 193
– 595
Rodén, L. 400
Rodriguez, A. R. 261
Rodriguez, P. A. 283
Rodriguez Procopio, J. 182
Röhl, R. 161
Roekens, E. 180
Römer, W. 296
Roepstorff, P. 292
Roesel, R. A. 593
Roesick, U. 161
Roets, E. 97
Rohde, K.-H. 387
Rohrbaugh, R. H. 282
Rohwedder, J. J. R. 477
Rohwer, E. R. 264
– 265
Rojas, R. M. A. 589
Rojas de Olivares, D. 171
Rokushika, S. 263
– 265
Rollie, M. E. 184
Romeo, G. 90
Romines, F. L. 585
Rondinini, S. 574
Roni, C. 394
Rood, H. D., Jr. 493
Rop, P. P. 198
Rosales, D. 378
Rose, W. I. 87
Rosen, J. D. 94
Rosen, R. T. 94
Rosenberg, M. J. 299
Rosenfeld, J. M. 297
Roshchin, S. A. 98
Roshchina, T. M. 458
Rosset, R. 273
– 454
– 455
Rossi, M. 459
Rossi, T. M. 483
Rotard, W. 33 Or
Roterman, I. 459
Rothley, D. 200
Rousseau, R. M. 370
Rowlands, C. C. 594
Rowlen, K. L. 66
Roy, C. 475
Røyset, O. 477
Rozali bin Othman, M. 350 Or
Rozkošna, J. 275
Ruan, K.-h. 99
Rubel, S. 192
Rubio, S. 64
– 595
Rubio-Barroso, S. 80
Rubtsova, S. N. 569
Rudan, D. 232 Or
Rudenko, B. A. 94
– 492
– 593
Rudewicz, P. 276
Rühlemann, M. 197
Rüssel, H. 160
Rüssel-Sinn, H. A. 757 Or
Ruitenbeck, W. 396
Runov, V. A. 86
Rusin, A. 469
Rusling, J. F. 373
– 459
Russell, G. M. 88
Russell, M. J. 487
Rusterholz, B. 573
Rutan, S. C. 266
Ruz, J. 578
Ruzicka, J. 76
– 164
– 170
– 592
Ryan, T. M. 392
Rykova, E. A. 167

S

Saavedra, J. E. 478
Saavedra, S. S. 474
Sacchetta, P. 396
Sadana, G. S. 96
– 588
Sadhukhan, M. 490
Sadleij-Sosnowska, N. 587
Sadlej, J. 368
Sadlej-Sosnowska, N. 393
Säve, B. C. S. 292
Sävenhed, R. 280
Šafařik, L. 95
Sagrado, S. 472
Sahai, B. M. 596
Sahleström, Y. 460
Said, A. S. 373
– 458
Saigusa, Y. 183
Sainz, M. A. 161
Sais, E. Z. 272
Saito, K. 400
Saito, M. 81
Saito, T. 170
Saito, Y. 299
Saitoh, K. 84
– 298
– 572
Saitoh, Y. 492
Sakai, M. 71
– 276
Sakai, T. 459
Sakodynskii, K. I. 455
– 458
Sakodynskii, K. O. 387
Sakuragawa, A. 182
Sakurai, M. 277
Sala, J. V. 168
Salama, O. 590
Saldadse, K. M. 386
Saleem, K. Y. 582
Saleh, M. S. 375
Salem, M. A. 79
Salem, N., Jr. 397
Salemme, J. 93
Salganskii, Yu. M. 84
Salim, R. 374
Salin, E. D. 192
Salinas, F. 284
– 461
– 463
– 575
– 579
Salinovich, O. 594
Salmon, J. 491
Salvati, L. 472
Salvolainen, K. 97
Samara, C. 461
Samec, Z. 376
Sammartano, S. 477
Samolyuk, S. I. 471
Samperi, R. 284
Sancar, A. 392
Sánchez, E. 280
Sanchez, F. G. 77
Sánchez Martín, J. 482
Sanchez-Ocampo, A. 72
Sánchez-Pedreno, C. 374
Sánchez-Uría, J. E. 178
Sancho, A. 90
Sanders, M. J. 281
Sandström, P.-E. 292
Sane, R. T. 96
– 393
– 588
Saner, A. 104
Sanghera, G. S. 269
Santa-Cruz, M. C. 487
Santagati, N. A. 90
Santano, J. J. 374
Santos, L. M. 290
Sanz, D. C. 487
Sanz-Medel, A. 169
– 178
– 369
– 578
Sanzolone, R. F. 477
Sapel'nikov, V. M. 86
Sapre, D. S. 96
Sarantonis, E. G. 377
Sarath, G. 91
Sarbar, M. 575
Sârbu, C. 588
Sarma, B. S. R. 72
Sarver, E. W. 94
Sarzanini, C. 463
Sasaki, M. 381
Sasaki, S.-i. 189
Sasaki, Y. 168
– 464
Sasso, M. G. 395
Sastry, C. S. P. 190
– 392
Sastry, D. L. 469
Sastry, G. S. 377
Satake, M. 72
– 378
– 462
– 576
– 577
– 579
– 580
Sato, T. 196
Satoh, K. 379
– 382
Satomura, S. 299
Satyanarayana, G. 469
Sava, I. M. 86
Savvin, S. B. 585
Sawada, M. 299
Sawada, T. 579
Saxton, W. L. 69
Sazonov, M. L. 469
Scalet, B. 475
Scarnulis, D. M. 459
Schachterle, S. 454
Schäfer, H. P. 558 Or
Schäfer, W. 253 Or
Schaffar, B. P. H. 577
Schaffer, R. 396
Schaller, K. H. 643 Or
Schauer, R. 397
Scheer, B. J. 459
Schefer, U. 573
Scheideler, L. 489
Scheijen, M. A. M. 104
Scheller, F. 79
– 291
Schenk, G. H. 582
Scheper, Th. 97
Scheuermann, S. E. 389
Schiefelbein, C. F. 469
Schiller, J. 395
Schilling, B. 67
Schilt, A. A. 574
Schisla, R. M. 91
Schladot, J. D. 707 Or
Schlatter, Ch. 367
Schlegelmilch, F. 264
Schlemmer, G. 388
Schlesing, H. 154 Or
Schmahl, H.-J. 150 Or
Schmid, E. R. 393
Schmid, G. M. 591
Schmid, W. 176
Schmidt, B. 100
Schmidt, M. L. 489
Schmidt, W. 401 Or
Schmidt, W. F. 40 Or
Schmitt, R. L. 472
Schmitt, T. M. 79
Schmitz, F. P. 263
Schneider, E. 43 Or
Schneider, G. M. 263
Schneider, N. R. 189
Schnug, E. 441 Or
Schnurrbusch, M. 462
Schöllnhammer, G. 294
Schönherr, J. 185
Schoenmakers, P. J. 565
Scholz, F. 774 Or
Schramel, P. 135 Or
– 142 Or
– 634 Or
– 658
Schregenberger, C. 264
Schreuder, C. 187
Schröder, E. 472
Schroeder, W. P. 474
Schuber, F. 288
Schubert, F. 291
Schügerl, K. 97
Schuette, S. A. 459
Schütz, H. 565
Schultz, E. 489
Schulz, J. 282
– 466
Schure, M. R. 373
Schutter, J. A de 589
Schuyl, P. J. W. 474
Schwalbe-Fehl, M. 388
Schwartz, D. P. 92
Schwarz, B. 383
Schwarz, R. 386
Schwedt, G. 261
Schweikert, E. A. 371
Scislowski, P. W. D. 299
Scocca, J. R. 292
Scolla, P. L. 174
Scollary, G. 479
Scott, R. P. W. 258
Scotto di Tella, A. 493
Seabra E Barros, J. 87
Seaman, S. W. 94
Searle, R. B. 166
Sears, R. W. 274
Šebekova, K. 394
Sebille, B. 465
Šebková, D. 95
Sedlář, J. 273
Seegmiller, J. E. 296
Seelisch, J. 774 Or
Seferovic, W. 269

Segel, I. H. 591
Sehlin, J. 292
Seiber, J. N. 482
Seif, R. 135 Or
Seiler, F. R. 103
Seitz, W. R. 167
Selavka, C. M. 394
Selby, M. 567
Seleim, M. M. 375
Selsted, M. E. 292
Semenova, I. A. 82
Semenova, I. N. 74
Sempore, G. 481
Semyonov, S. N. 461
Sen, N. P. 94
Sengers, R. C. A. 396
Senin, N. N. 387
Sepp, L. A. 493
Septar, Z. S. 81
Serdan, A. A. 372
Serpinet, J. 371
Serve, L. 90
Sethi, C. L. 577
Sevillano-Cabeza, A. 170
Sevov, S. 358 Or
Seymour, J. L. 592
Shafer, K. H. 68
Shah, A. 197
Shah, A. K. 590
Shaikh, Z. A. 297
Shakar, J. J. 175
Shakhid Rashid 267
Shakir, I. M. A. 191
Shalabi, J. 374
Shan, X.-quan 419 Or
Sharaf, M. A. 564
Sharma, A. 592
Sharma, R. L. 462
Shatirishivili, I. S. 479
Shaw, L. M. 201
Shcherbakova, T. M. 81
Shcherbinina, N. I. 91
Sheely, M. V. 183
Sheina, N. M. 82
Shekhovtsova, T. N. 596
Shen, W.-l. 477
Sheng, R. S. 162
Sheng Jin 191
Shen Li-li 777 Or
Shephard, G. S. 468
Sherma, J. 92
– 589
Sherren, A. J. 286
Shetter, R. E. 277
Shevchuk, I. 456
Shevtsov, N. I. 177
Shi, L. H. 456
Shibamoto, T. 93
– 483
Shibanoki, S. 295
Shibata, Y. 594
Shibukawa, A. 101
Shifris, B. S. 82
Shiga, N. 90
Shigematsu, T. 383
– 384
Shih, J.-S. 573
Shimada, K. 200
Shimamura, Y. 90
Shimizu, R. 175
Shimojo, N. 289
Shimomura, S. 393
Shimomura, Y. 202
Shimoyama, M. 489
Shinohara, A. 400
Shinohara, T. 488
Shinomiya, K. 103
Shiojiri, H. 398
Shiono, S. 467
Shiraishi, K. 590
Shiryaeva, O. A. 381
Shishan, Z. 296
– 393
– 572
Shitashima, K. 477
Shivarudrappa, V. 578
Shkarin, A. V. 584
Shoji, H. 382
Shoji, S. 102
Shono, T. 576
Short, C. R. 294
Shpigun, L. K. 573
Shreedhara Murthy, R. S. 162
Shubochkin, L. K. 464
Shugart, L. 298
Shukla, J. P. 578
Shukla, S. S. 459
Shulgin, A. T. 593
Shupack, S. I. 166
Shuttler, I. L. 591
Shvedene, N. V. 82
Sia Shu-Gan 585
Siddiqui, S. A. 386
Sidelnikov, V. N. 584
Siebert, C. 298
Siefker, J. R. 167
Siegel, M. M. 576
Siegfried, R. 389
Siegmund, E. G. 285
Sierra-Marcuño, G. 100
Sikorska, A. 192
Sikorska-Tomicka, H. 271
– 391
Silva, M. 377
Simeonov, V. 314 Or
Simkins, S. 89
Simmons, M. S. 89
Simolike, G. C. 392
Simon, W. 573
Simonsick, W. J., Jr. 570
Sinclair, J. F. 297
Sinclair, P. R. 297
Sinclair, T. J. 277
Sindhu, R. S. 379
Sindhwani, S. K. 379
Sinditskii, V. P. 581
Singh, B. 64
Singh, D. K. 454
Singh, G. B. 493
Singh, H. B. 462
– 464
Singh, I. 480
Singh, N. 75
Singh, N. N. 294
Singh, R. B. 464
Singh, R. P. 379
– 592
Singh, S. K. 379
Sinninghe Damsté, J. S. 474
Sinram, R. D. 187
Sirois, G. 100
Sisco, W. R. 95
Sistovaris, N. 751 Or
Sithole, B. B. 89
Sitrin, R. D. 392
Sivonen, S. J. 87
Sizova, N. V. 478
Składanowski, A. C. 399
Skogerboe, K. J. 454
Skornyakov, V. V. 386
Skoug, J. W. 594
Skow, C. A. R. 173
Skrinskii, A. N. 64
Skvortsov, A. M. 275
Šlais, K. 64
Slatkavitz, K. J. 66
Slavin, W. 168
– 192
Sleigh, M. J. 489
Slik, W. van der 290
Slingsby, R. W. 173
Slobodyanyuk, T. E. 569
Sloley, B. D. 299
Slonaswka, K. 477
Slovetskii, V. I. 83
Sly, T. J. 574
Smagunova, A. N. 569
Small, G. J. 281
Smet, M. de 190
Smid, E. 293
Smid, J. R. 76
Smirenkina, I. I. 64
Smirnov, A. V. 580
Smit, H. C. 162
– 165
– 260
Smit, J. C. 260
Smith, A. F. 594
Smith, B. W. 568
Smith, H. K. 260
Smith, J. S. 696 Or
Smith, J. V. 569
Smith, K. L. 193
Smith, M. P. 179
Smith, P. L. 66
Smith, R. D. 67
– 456
– 457
Smith, R. J. 261
Smith, R. M. 286
– 588
Smith, R. W. 456
Smith, S. J. 297
– 474
Smola, U. 283
Smoleński, R. T. 399
Smol'yaninov, G. A. 387
Smyth, M. R. 492
Snel, R. 273
Snook, R. D. 63
– 76
– 567
Snyder, L. R. 67
– 262
Soczewiński, E. 456
Sofer, Z. 469
Soják, L. 77
Sokolova, L. I. 455
Sokolova, L. P. 386
Sokolowski, A. 455
Soloshonok, V. V. 81
Solov'ev, E. A. 585
Somer, T. 465
Somrani, S. 179
– 384
Sontag, G. 283
Soria, V. 67
Sorochkina, T. G. 84
Sotirhos, N. 92
Sotnikov, E. E. 385
Soto-Otero. R. 100
Southgate, D. A. T. 660 Or
Souza, M. C. A. de 268
Spaink, H. A. 162
– 165
Spall, W. D. 484
Spanedda, L. 394
Spatola, A. F. 396
Spedding, M. 190
Sphon, J. A. 188
Spiro, M. 93
Spitzer, T. 89
Sporns, P. 186
Sporreiter, K. 166
Spraul, M. 284
Springton, S. R. 67
Spurny, K. R. 565
Squella, J. A. 97
Sreenivasan, K. 266
Srinivasan, B. 104
Sriramam, K. 72
Srivastava, S. K. 169
Stack, J. B. 283
Stadalius, M. A. 262
Staden, J. F. van 480
– 754 Or
Stärk, H.-J. 63
Stallard, M. 386
Stambolian, D. 398
Stamford, J. A. 194
Stamm, D. 288
Stamp, J. J. 285
St. Angelo, A. J. 182
Stanley, J. A. 182
Stará, V. 586
Staroverov, S. M. 65
– 372
Starzyński, S. 463
Stedman, D. H. 277
Steel, E. B. 64
Stefano, C. de 477
Steger, J. 67
Steigstra, H. 162
– 576
Steiner, I. 197
Steinwandter, H. 139 Or
Stensland, E. 492
Stepanenko, V. E. 173
Sterliński, S. 569
Sterritt, R. M. 477
Stetten, O. V. 296
Steudel, R. 170
– 543 Or
Stewart, J. A. 199
Steyn, J. M. 491
Stocks, S. J. 86
Stoeppler, M. 510 Or
– 639 Or
– 707 Or
– 723 Or
Stojek, Z. 471
Stokker, Y. D. 285
Stolyarov, B. V. 69
Stong, J. D. 586
Storms, H. M. 370
Stott, A. W. 468
Strandbergh, D. R. 592
Straten, S. van 259
Stratton, L. P. 400
Strauss, R. 543 Or
Street, K. W., Jr. 70
Strelow, F. W. E. 80
Stremilova, N. N. 83
Stril'chenko, T. G. 172
Strokina, L. M. 458
Struijs, T. D. B. van der 188
Stubbs, C. 295
Štulik, K. 392
– 460
Stupperich, E. 197
Sturgeon, R. E. 181
– 387
– 712 Or
Styskin, E. L. 65
Suarez, A. F. 178
Suárez, M. L. 164
Subrahmanyam, K. 465
Suda, M. 170
Sudo, E. 81
Suet, E. 169
Sugawara, M. 459
Sugihara, H. 573
Sugii, A. 582
Sugimoto, T. 299
Sugino, K. 183
– 201
Sugiura, M. 400
Sugiyama, Y. 298
Suguna, N. 462
Sukhovol'skaya, N. E. 569
Sulaiman, S. T. 169
– 466
– 582
Sul'dina, N. P. 89
Sulikowski Fenton, S. 193
Sullivan, J. J. 92
Sulmont, V. 199
Sultan, S. 73
Sumner, M. E. 281
Sumrell, G. 182
Sumskaya, N. R. 574
Sun, Q. 578
Sun, Y. 263
Sunaga, H. 289
Sunahara, H. 75
Sundqvist, B. U. R. 292
Sunner, J. A. 371
Supatashvili, G. D. 81
Susanto, F. 295
Suter, G. 573
Sutton, S. R. 569
Suvanto, E. 399
Suzuki, H. 103
Suzuki, K. 267
– 579
Suzuki, K. T. 289
– 594
Suzuki, N. 84
– 88
– 298
– 382
– 462
– 572
Suzuki, O. 228 Or
Suzuki, S. 77
– 192
– 269
– 276
– 381
Suzuki, T. 196
– 578
Suzuki, Y. 466
Svanidze, Z. S. 91
Svartengren, M. 647 Or
Švec, A. 572
Svehla, G. 376
Svensson, B. H. 89
Svensson, J.-O. 200
Svetlova, N. I. 455
Sviridenko, V. G. 86
Svishchenko, N. M. 82
Svitelskii, V. P. 387
Swaine, H. 285
Swanson, S. P. 493
– 587
Swerdlow, P. S. 483
Switzer, W. L. 260
Sybilska, D. 391
– 582
Sylvia, V. L. 186
Symanski, J. S. 385
Syty, A. 170
Szadowski, J. 277
Székely, T. 272
Szepesi, G. 271
Szewczak, M. 163
Szewczyk, H. 471
Szewczyk, P. 373
Szirtes, L. 260
Szkuta-Pochopień, T. 83
Szögyi, M. 468
Szógyi, M. 485
Szókán, G. 485
Sztaniszláv, D. 295
Sztruhár, I. 97
Szymczyk, S. 744 Or

T

Ta, T. C. 184
Táborský, J. 271
Tada, K. 388
Tagashira, S. 168
– 464
Taguchi, Y. 194
Tahboub, Y. R. 99
Tailakova, G. O. 81
Tajana, A. 198
Tajima, K. 462
Takada, K. 80
– 380
Takagi, J. 299
Takagi, M. 374
Takagi, N. 101
Takagi, S. 482
Takagi, S.-i. 462
Takagi, T. 467
Takahashi, K. 186
– 381
– 387
Takahashi, Y. 189
– 584
Takamura, H. 397
Takano, S. 473
Takase, K. 486
Takashima, Y. 387
Takayama, C. 189
Takayama, H. 594
Takayama, Y. 384
Takayanagi, K. 280
Takeda, T. 572
Takeischi, H. 171
Takeishi, H. 175
Takeshita, R. 286
Taketatsu, T. 375
Takeuchi, T. 101
– 262
Takiyama, K. 283
Talipov, Sh. T., Vereshchagin, N. G. 70
Tameeh, A. H. H. 272
Tamiya, E. 396
Tamura, K. 182
Tan, L. 270
Tan, L. K. 176
Tanaka, G.-I. 590
Tanaka, H. 101
Tanaka, K. 467
Tanaka, M. 486
Tanaka, S. 181
– 595
Tanaka, T. 82
– 362 Or
– 395
– 400
– 460
Tanaka, W. 594
Tang, B. K. 200
Tanigawa, Y. 489
Taniguchi, N. 489
Tanner, J. T. 696 Or
Tao, H. 278
Tapia, T. 589
Tappa, R. 474
Tarasov, N. M. 72
Tarbet, B. J. 174
Targrove, M. A. 65
Tariq, M. 180
Tarroux, P. 572
Tarter, J. G. 262
Tarutani, T. 181
Tas, A. C. 493
Tashiro, Y. 492
Tasker, R. A. R. 493
Tatenuma, K. 171
Tatsumi, M. 101
Tauskela, J. S. 71
Taylor, D. 592
Taylor, L. T. 263
Taylor-Mayer, R. E. 62
Tebbett, I. R. 96
– 294
Tecklenburg, R. E., Jr. 265
Teien, G. 593
Tejada, S. B. 475
Tejero, R. 67
Tembreull, R. 370
Temerdashev, Z. A. 583
Temerk, Y. M. 146 Or
Temizer, A. 287
– 589
Templeman, J. 93
Tenaschuk, D. 268
– 291
Tencheva, J. 492
Terabayashi, T. 486
Terekhova, G. P. 458
Terent'eva, E. A. 86
Terletskaya, A. V. 280
Ternan, M. 383
Ternes, W. 757 Or
Térouanne, B. 487
Tershchenko, G. F. 267
Teske, K. 68
Tham, F. S. 179
Than, E. 331 Or
Theis, S. 584
Thenot, J. P. 198
Thier, H.-P. 160
– 285
Thio, A. P. 482
Thoma, K. 288
Thomas, A. H. 96
Thomas, B. S. 487
Thomas, H. 592
Thomas, J. A. 397
Thomas, J. D. R. 269
– 461
– 483
Thomassen, Y. 639 Or
Thompson, H. C., Jr. 93
Thompson, J. J. 175
Thompson, J. M. 576
Thompson, J. N. 400
Thompson, K. 277
Thompson, K. C. 182
Thompson, M. 63
– 71
– 191
Thomsen, K. N. 166
Thomsen, M. 65
Thormann, W. 278
Thrane, K. E. 184
Thuilot, G. 293
Thurén, A. 182
Thurnheer, T. 277
Tiee, J. J. 369
Tikhonov, Yu. V. 398
Tikhonova, L. V. 82
Tikoo, B. N. 178
Tillekeratne, S. 278
Timm, U. 104
Timperley, M. H. 184
Ting, B. T. G. 484
Ting, S. 391
Tinggi, U. 395
Tioh, Ng.-h. 288
Titova, E. V. 485
Tixier, M. 78
Tjaden, U. R. 491
Tobback, P. P. 273
Tobias, S. 25 Or
Tochilkin, A. I. 93
Tock, P. P. H. 66
Tocksteinova, Z. 165
– 471
Toei, J.-I. 168
Tôei, K. 476
Tölg, G. 495 Or
– 583
Török, A. 485
Török, S. B. 370
Togari, A. 494
Tojo, T. 380
Tokoro, R. 465
Tokudo, H. 473
Tokuzov, P. T. 398
Tolikina, N. F. 387
Tolstikov, G. A. 171
Tomassetti, M. 586
Tomellini, S. A. 66
Tomer, K. B. 486
Tomic, S. 279
Tominaga, M. 595
Tomingas, R. 180
– 476
Tomita, Y. 582
Tomizawa, N. 290
Tompkins, D. H. 482
Tondeur, Y. 488
Tonelli, D. 98
– 394
Tong, W. P. 199
Tonzetich, J. 102
Topalov, A. S. 391
Topalova, I. 458
Tor, R. 164
Torelm, I. 699 Or
Toren, C. E., Jr. 165
Toren, P. C. 298
Toribio, F. 293
– 374
– 580
Torremocha, I. 479
Tóth, G. 595
Tóth, Gy. 196
Tóth, K. 72
Townshend, A. 377
– 396
– 590
Tozawa, K. 80
Traag, W. A. 390
Trageser, Kl. 517 Or
Tran, Ch. D. 369
Trenkle, A. 590
Treskes, M. 483
Tressol, J.-C. 480
Trettnak, W. 547 Or
Trezeguet, V. 101
Trijbels, J. M. F. 396
Tripathy, S. C. 274
Trippel-Schulte, P. 297
Tripurasundari, K. I. 100
Třiska, J. 68
– 471
Tröltzsch, C. 465
Trogu, E. F. 165
Trojanek, A. 75
Trojanowicz, M. 271
Trojanowski, J. Q. 489
Troke, J. A. 267
Trotz, M. 488
Troyanowsky, C. 61
Trucksess, M. W. 185
Trüeb, E. 160
Trujillo, A. 78
Trumbull, E. P. 586
Trybus, T. 183
Tsaconas, C. 488
Tsai, J. F. 197
Tschöpel, P. 583
Tsingarelli, R. D. 73
Tsipouras, A. 175
– 467
Tsitsishvili, G. V. 68
Tsubomatsu, Y. 578
Tsubota, H. 477
Tsuchiya, H. 101
Tsuchiya, M. 84
– 92
– 489
Tsuhako, M. 382
Tsukada, T. 84
Tsukamoto, M. 482
Tsukeva, E. 358 Or
Tsukioka, T. 286
Tsumagari, N. 175
Tsuneyoshi, T. 66
Tsuya, N. 386
Tuchman, M. 174
Tuhtar, D. 75
Tuinstra, L. G. M. Th. 388
– 390
Tungkananuruk, N. 378
Turánek, J. 201
Turel, Z. R. 464
Turkaly, J. S. 292
Turkina, M. Ya. 163
Turley, R. B. 103
Turner, J. B. 468
Turrisi, A. 201
Turuhara, K. 381
Tuttle, J. H. 274
Tuzhi, P. 262
– 459
– 589
Tyson, J. F. 161
Tzeng, W. L. 70

U

Ubigli, M. 480
Uchida, T. 382
– 579
Uchino, K. 492
Udalov, N. V. 82
Uden, P. C. 66
Ueda, K. 381
– 478
– 584
Ueda, T. 181
Ueda, Y. 586
Uesugi, K. 461
Uesugi, Y. 381
Uetz, J. A. 490
Ugarova, N. N. 596
Uhlemann, E. 574
Uhrig, M. S. 457
Ujihara, T. 384
Ullemeyer, H. 284
Ullman, A. H. 266
Ulsaker, G. A. 593
Umada, Y. 381
Umamaheswara Rao, K. 469
Umezaki, H. 381
Umezaki, Y. 192
Umezawa, H. 594
Umezawa, Y. 459
– 465
Umweltbundesamt 258
Unno, A. 74
Uno, T. 199
Upadrashta, S. M. 286
Urbański, J. 274
Ureña Pozo, M. E. 484
Us Fu-pen 585
Ushijima, T. 296
Uto, M. 459
Utsumi, S. 182
Uvarova, N. I. 582
Uyeda, K. 592

V

Vadgama, P. 484
– 592
Vadgama, P. M. 100
Vahter, M. 647 Or
Vahtila, S. 471
Valcarcel, M. 64
– 468
– 479
– 578
Valcárel, M. 595
Valdez, J. G. 484
Valeenuwat, S. 170
Valentin, H. 643 Or
Valkenburg, C. A. 468
Valkovic, V. 279
Valon, J. J. 75
Van Cauter, R. 90
Van Cauwenbergh, S. M. 273
Vandaele, J. 464
Vandale, J. 583
Vandecasteele, C. 584
Vandeginste, B. 167
Vandenberg, E. T. 71
Vandenhaute, J. 736 Or
Vanderhaeghe, H. 97
Van Der Lijn, P. 396
Van der Wal, S. 454
Vandiver, V. J. 369
Van Dyck, P. M. 370
Vaněk, T. 390
Van Elsen, Y. 90
Van Emon, J. 482
Van Giessen, G. J. 389
Van Grieken, R. E. 88
– 370
Van Loon, J. C. 345 Or
– 366
Van So, L. 371
Van Wagenen, S. 179
Van Zi-Xzun 585
Varani, G. 484
Varney, M. S. 281
Varon, S. 102
Varshal, G. M. 91
Varshavsky, A. 483
Vartanian, R. 395
Vasil'eva, L. N. 82
Vasilevskaya, L. N. 84
Vass, I. 317 Or
Vataman, I. I. 74
– 81
Vatsala, S. 473
Veazey, R. L. 471
Vedres, A. 97
Veening, H. 66
– 488
Veillon, C. 639 Or
Veisserik, J. 465
Velde, E. G. van der 488
Velthorst, N. H. 275
Venable, R. 397
Vendrell, J. 103
Venkateswara Rao, N. 469
Verbeke, R. 188
Verebey, K. 297
Verecczkey-Donáth, G. 97
Veress, G. E. 317 Or
Verheul, F. E. A. M. 188
Verma, R. 582
Verniese-Genard, N. 186
Vernon, F. 270
Verweij, A. 94
Verzele, M. 260
Veselsky, J. C. 462
Vespalec, R. 585
Vesterberg, O. 595
Vetrova, Z. P. 455
Veuthey, J.-L. 388
Vial, H. J. 78
– 104
– 595
Viala, A. 198
Vibhute, C. P. 88

Vickers, G. H. 191
Vickers, L. 493
Vickers, T. J. 175
Victor, A. H. 378
Vidal, J. C. 374
Vienne, D. de 103
Viet Pham, H. 573
Viets, J. G. 88
Vijayanthimala, R. 75
Vilá, J. I. 287
Vilde, S. 456
Villalobos, M. C. 696 Or
Villanueva Camanas, R. M. 72
Vilpo, J. A. 399
Vilpo, L. M. 399
Vimalasiri, P. A. D. T. 85
Vincens, P. 572
Vinjamoori, D. V. 91
Vioque, A. 586
Vioque, B. 586
Vistelle, R. 199
Viswanadham, S. K. 281
Viswanatha, T. 298
Viswanathan, S. 178
Vitéz, Zs. J. 391
Vitta, M. 592
Vlasenko, E. V. 194
– 458
Vlasov, Yu. G. 460
Vlasovskaya, O. N. 458
Vliet, H. P. M. van 571
Vlietinck, A. J. 393
Vnukovskaya, G. L. 180
Vodáková, Z. 84
Vodička, L. 68
– 272
– 471
– 760 Or
Vo-Dinh, T. 281
– 282
Vodrážka, Z. 192
Völker, L. 395
Voellkopf, U. 70
– 275
Vogelsang, J. 285
Vogt, J. 370
Voigt, G. 196
Voinovitch, I. A. 383
– 473
Volkman, J. K. 388
Volkov, S. A. 385
– 387
– 455
Volodina, M. A. 77
Volovenko, V. O. 387
Volpe, P. 463
Volynets, M. P. 464
– 585
Voogt, W. H. 295
Vos, L. 180
Voyksner, R. D. 282
Vroomen, L. H. M. 188

W

Wada, H. 69
– 261
– 584
Wada, S. 461
– 595
Wade, A. P. 369
– 574
Wadman, S. K. 593
Waelkens, J. J. J. 188
Wänninen, E. 165
Wagatsuma, K. 380
Wages, S. A. 394
Wagner, F. W. 91
Wagner, H. 572
Wagner, J. 201
Wagstaffe, P. J. 679 Or
Wahbi, A. M. 568
Waheed, S. 384
Wai, C. M. 484
Wainer, I. W. 267
– 268
– 390
– 590
Wainwright, M. S. 261
Waisser, K. 392
Wakida, S. 460
Wakida, S.-ichi 362 Or
Wakizaka, Y. 377
Waku, K. 398
Wakui, Y. 298
Wald, B. 283
Walder, Ch. 67
Waldes, L. 295
Walker, S. W. 594
Wallace, B. G. 286
Walls, F. C. 371
Walser, M. 78
Walt, D. R. 165
Walter, A. 288
Walters, F. H. 78
Walters, R. R. 371
Walton, R. A. 570
Wand, J. 588
Wang, Chan-Yi 466
Wang, G. H. 371
Wang, J. 61
– 198
– 262
– 375
– 377
– 459
– 589
Wang, Q.-S. 202
Wang, T.-bang 419 Or
Wang, W. J. 169
– 578
Wang, Y.-C. 187
Wangchareontrakul, S. 274
Wannemacher, B. 268
Warmack, R. J. 282
Warne, S. S. J. 474
Warner, C. R. 92
Warner, G. L. 193
Warner, I. M. 184
– 483
Wasek, M. 569
Wasey, A. 579
– 580
Wasi, N. 464
Wasiak, W. 264
– 458
Watanabe, H. 381
Watanabe, K. 289
– 594
Watanabe, N. 292
Watanabe, Y. 276
Watanesk, S. 574
Waters, D. H. 287
Watkinson, J. H. 89
Watkinson, R. J. 276
Watson, J. E. 102
Wayne, L. G. 398
Weaver, K. M. 481
Weaver, M. J. 369
Weber, A. 565
Weber, D. 275
Weber, D. F. 479
Weber, G. 463
Weber, J. H. 274
– 279
Wechter, M. A. 470
Wegner, C. 488
Wegscheider, W. 69
Weinrich, D. D. 384
Weinstein, C. L. 494
Weiss, D. E. 478
Weiss, M. 97
Weiß, T. 292
Weisweiler, W. 383
Weith, H. L. 298
Wekell, M. M. 92
Welch, K. J. 571
Welch, M. J. 396
Welch, R. M. 484
Welling, P. 481
Wellock, E. 487
Wells, M. J. M. 469
Welsch, T. 153 Or
Welte, B. 567
Welti, D. H. 573
Weltle, D. 643 Or
Welz, B. 159
– 388
Wenclawiak, B. 551 Or
Wendel, G. J. 277
Wenning, M. J. 265
Werner, G. 389
West, K. J. 462
West, W. R. 282
Wetlaufer, D. B. 102
Wetzig, K. 218 Or
Whalley, P. D. 164
Wheeler, M. H. 488
White, D. A. 281
White, K. D. 188
White, P. J. 187
Whitehead, W. E. 483
Whitehurst, D. D. 84
Whitelaw, M. 174
White V., E. 396
Whitworth, J. W. 184
Wibetoe, G. 567
Wieckowska, J. 278
Wiedemann, D. 179
Wienke, D. 167
Wigfield, D. C. 398
Wigilius, B. 280
Wijdeven, B. van de 167
Wikmark, G. 459
Wilchek, M. 481
Wilcox, C. D. 456
Wilczyńska-Wojtulewicz, I. 393
– 587
Wilhartitz, P. 218 Or
Wilkins, C. L. 69
Willay, G. 340 Or
Willems, H. J. J. 490
Willemsen, J. J. 290
Williams, A. M. 278
Williams, D. G. 478
Williams, E. J. 196
Williams, J. 276
Williams, M. C. 583
Williamson, M. J. 287
Willie, S. N. 181
– 387
Willmes, H. 484
Wilsch, A. 263
Wilson, I. D. 267
Wilson, W. P. 260
Wimmer, H. 159
Wind, M. L. 93
Winefordner, J. D. 161
– 169
– 270
– 273
– 369
– 568
– 582
Winer, A. M. 183
Winkle, S. A. 399
Winnard, D. A. 478
Wintermans, J. F. G. M. 104
Wisser, H. 194
– 288
Witsch, D. 197
Wittenberger, W. 453
Wittmann, A. 340 Or
Wittmann, P. K. 278
Witz, G. 193
Wojaczyńska, M. 261
Wojciechowski, K. 277
Wójcik, A. B. 263
Wolf, J. G. 296
Wolf, W. 696 Or
Wolf, W. R. 702 Or
Wolfbeis, O. S. 376
– 547 Or
– 577
Wolff, G. A. 470
Wolfs, K. 97
Wolski, T. 267
Wolthers, B. G. 290
Wolynetz, M. 639 Or
Wong, G. T. F. 280
Wong, H. E. 71
Wong, J. T.-F. 202
Wong, K.-S. 481
Wood, D. 627 Or
Wood, D. L. 197
Wood, S. G. 297
Woodcock, J. T. 274
Wooley, C. L. 263
Woolf, E. J. 99
Workman, J. 568
Worsfold, P. J. 78
Wright, B. W. 67
– 456
Wright, D. W. 265
Wright, J. C. 88
Wright III, C. E. 490
Wrolstad, R. E. 282
Wu, B. L. 65
Wu, D. 371
Wu, Q. 270
Wuketits, F. M. 320 Or
Wunderli, S. 279
Wurster, D. E. 286
Wylie, P. L. 69
Wyrick, S. D. 392

X

Xie, F. 200
Xie, R. Y. 164
– 395
– 460
Xu, A. 573

Y

Yacynych, A. M. 99
Yadev, A. 379
Yaegaki, K. 102
Yagi, M. 570
Yakovleva, I. A. 267
Yakshin, V. V. 171
Yakushina, E. V. 85
Yamada, H. 89
Yamada, K. 196
– 201
Yamada, M. 77
– 192
Yamada, N. 182
Yamagishi, M. 465
Yamaguchi, H. 101
– 176
– 562 Or
Yamaguchi, K. 384
Yamaguchi, M. 266
– 290
– 492
Yamaha, S. 79
Yamamoto, K. 393
Yamamoto, M. 73
Yamamoto, M.
– 577
– 586
Yamamoto, Y. 73
– 381
– 478
– 577
Yamamoto, Y. Y. 74
Yamamura, Y. 492
Yamane, M. 362 Or
– 460
Yamasaki, S. 76
Yamashita, K. 594
Yamazaki, S. 292
Yanada, M. 476
Yanan, C. 705 Or
Yanashima, H. 267
Yancey, J. A. 265
– 470
Yanez-Sedeno, P. 285
Yang, D. 65
Yang, F. J. 65
Yang, S. K. 183
Yang, T. C. 170
Yang, Y. 66
– 162
Yan Guo 191
Yankovenko, V. V. 74
Yao, K. 65
Yarsohenko, O. P. 574
Yarym-Agaeva, N. T. 180
Yashin, Y. I. 455
Yasuda, H. 199
Yasukawa, E. 102
Yavuz Ataman, O. 385
Ye, M. L. 456
Yeah, K. S. 161
Yergey, J. A. 397
Yerian, T. D. 377
– 592
Yerramilli, A. 177
Yeung, E. S. 454
– 468
Yeung, E. W. K. 392
Yeung, J. M. 291
Yezequel, J. Y. 370
Yiaohua Cai 169
Yokofujita, K. 283
Yokohama, H. 398
Yokoi, H. 181
Yokota, F. 379
Yokote, Y. 102
Yokoyama, H. 386
Yonese, C. 187
Yonezawa, C. 380
Yonezawa, H. 383
Yonker, C. R. 457
Yordanov, N. 301 Or
Yoshida, A. 492
Yoshida, H. 214 Or
– 459
Yoshida, M. 267
Yoshida, S. 94
Yoshida, Z. 171
– 175
Yoshikawa, M. 194
Yoshimura, K. 181
Yoshinga, T. 261
Yoshino, T. 164
– 459
Yoshiura, M. 290
– 396
Yoshizawa, T. 587
Yost, R. A. 179
Yu, L. 593
Yu, L. W. 193
– 488
Yu, P. H. 299
– 494
Yuan, Y.-C. 392

Yuchi, A. 69
– 584
Yuhas, D. A. 189
Yulaev, M. F. 98
Yumura, M. 181
Yune, Z. 572
Yurawecz, M. P. 189
– 286
Yustus, Z. L. 82

Z

Zaborska, W. 168
Zábršová, H. 201
Zadeh, J. M. 375
Zagidullin, S. N. 74
Zaitsu, K. 595
Zak, B. 568
– 592
Zakhariya, A. N. 81
Zakharova, N. V. 278
Zaky, M. 461
Zancato, M. 173
Zanette, M. L. 276
Zaofan Zhao 169
Zappoli, S. 382
Zarkadas, C. G. 195
Zarkadas, G. C. 195
Zdorova, E. P. 88
Zebrower, M. E. 397
Zedalis, J. M. 493
Zeeuw, D. de 490
Zehnacker, S. 273
Zeiske, J. 297
Zeisler, R. 696 Or
Zelensky, I. 476
Zeller, A. 446 Or
Zel'tser, L. E. 70
Zelvenskii, V. Yu. 455
Zelvensky, V. Y. 471
Zeng, M.-Y. 296
Zeppezaner, M. 566
Zerezghi, M. 184
Zhang, P. 79
Zhang, S.-B. 202
Zhang, Ya-Dong 466
Zhang, Y.-L. 191
Zhang Xiao-song 579
Zhao, Z. 172
Zheivot, V. I. 584
Zhiltsova, L. I. 469
Zhivopistsev, V. P. 72
Zhmurova, N. V. 267
Zhu, L. 162
Zhu, P. L. 261
Zhu,Ying-quan 473
Zhu, Y.-Q. 386
Zhujun, Z. 167
Zhukov, A. F. 74
Zhukova, G. F. 93
Zhu Xiang-ping 579
Ziegler, E. 368
Ziegler, R. J. 79
Zielinska, B. 183
Ziemniak, J. A. 198
Zienius, R. H. 286
Zies, G. 218 Or
Zima, J. 96
– 471
Zimmermann, F. K. 62
Zimova, N. 96
Ziogas, I. 581
Zivanovič, L. 190
– 393
Zjawiony, I. 471
Zlatanov, L. 95
Zobel, H. 83
Zolotaryov, P. P. 461
Zolotov, Yu. A. 180
– 573
Zoonen, P. van 275
Zorin, A. D. 85
Zorin, A. E. 593
Zorkin, N. G. 279
Zoutendam, P. H. 392
Zubovits, T. 200
Zürrer, D. 277
Zukowsky, J. 391
Zwanziger, H. 153 Or
Zwart, A. 162
Zybin, A. V. 64
Żytkow, J. M. 308 Or

A

Abscisic acid
- detmn. of – in citrus leaves by reversed-phase HPLC 90
- sepn. of – enantiomers with monoclonal antibodies 100

Acemetacin
- detmn. of – and indometacin in blood plasma and blood by HPLC 294

Acenaphthenequinone monothiosemicarbazone
- detmn. of osmium and iridium with – by spectrophotometry 379

Acetaldehyde
- detmn. of ethanol and – in wine by enzymatic method and FIA 479
- detmn. of ethanol in breath by IR analyzer, interference by – 484
- detmn. of – in aqueous foods by headspace GC 284

Acetaminophen
- anal. of –, codeine phosphate and sodium benzoate in pharmaceutical products by HPLC 95
- detmn. of –, oxyphenbutazone and salicylamide by spectrophotometry, after nitration 190

Acetic acid
- synthesis and extr. behavior of dibenzo-14-crown-4 derivatives of – and hexanoic acid 574

Acetylacetonates
- sepn. of chromium(III), cobalt(III) and aluminum as – by GC 463

Acetylcysteine
- detmn. of penicillamine and – in blood by HPLC with electrochem. detection 491

Acetylhexosamines
- ident. of N– as N-acetylhexosaminitols by anion-exchange chromatography 292

Acetylhexosaminitols
- ident. of N-acetylhexosamines as N– by anion-exchange chromatography 292

Acetylneuraminic acid
- detmn. of N– and N-glycolneuraminic acid by HPLC/thiobarbituric acid assay 397

2-Acetylpyridine-2-benzothiazolylhydrazone
- detmn. of iron(II) with – by extr. spectrophotometry 464

2-Acetyl-4(5)tetrahydroxybutylimidazole
- anal. of – in food colors by chromatography 189

α_1-Acid glycoprotein
- sepn. of – from $\alpha_1$anti-trypsin in blood plasma by HPLC using hydroxyapatite column 595
- sepn. of sialyl-oligosaccharides from – by HPLC 104

Acidic compounds
- sepn. of – by ion-exclusion LC with electrokinetic detection 572

Acidity constants
- computation of – of acids, polyprotic from NMR or UV spectrometric data 165

Acids
- detmn. of silver error in the coulometric titration of – in various media 164
- sepn. of strong –, phosphoric acid by LC 585

Acids, dibasic
- studies on fluorescein, acid dissociation from the titration curves of – 575

Acids, polybasic
- spectrophotometry, mathematical treatment of absorbance versus pH graphs of – 568

Acids, polyprotic
- computation of acidity constants of – from NMR or UV spectrometric data 165

Acivicin
- detmn. of – in pharmaceutical products by HPLC 392

Aconitic acid
- sepn. of – from molasses by extr. 284

Acoustic emission
- study of chemical processes – 369

Acryl acid alkyl esters
- improved chromatography, thin-layer sepn. of C_1–C_{18} – 266

Actinides
- detmn. of – by α-spectrometry, sepn. by neodymium fluoride coprecipitation 72

Activation analysis
- detmn. of nitrogen by –, corrections for carbon and oxygen 580
- modern trends in –, Vol. 1: methodology – Vol. 2: applications, book 258
- , Ni-Cr alooy comparator for reactor neutron flux 570

Activation analysis, neutron
- anal. of geological materials by –, reduction of β-interference 383
- detmn. of arsenic and antimony in standard reference materials via isotopic tracers by radiochemical – 733
- , isotropic sources, review 164

Acylcarnitines
- sepn. of – from biological materials by HPLC 292

Acyl-coenzyme A esters
- detmn. of – in tissues by HPLC 202

Adamantane carboxylic acids
- HPLC of methyl esters of diamantane carboxylic acids and – 272

Adamantane derivatives
- charact. of oxygen-containing – by capillary GC 471

Adamantanes
- ident. of – in some Iraqi crude oils by GC 272

Adenine dinucleotides
- detmn. of 1-methyladenine, deoxyadenosine, deoxyadenosine-5′-monophosphate and – by DPPA 146

Adenine nucleotides
- sepn. of – in biological materials by HPLC 201

Adenosine
- detmn. of – and inosine in blood plasma with immobilized enzyme columns, FIA, fluorimetry 595

Adenosine monophosphate
- detmn. of – in tissues, animal with muscle deaminase by enzymatic anal. 399

Adenosine nucleotides
- sepn. of – as 1,N^6-ethenoadenosine by HPLC 201

Adenosyl methionine
- detmn. of decarboxylated S– in urine by HPLC/fluorimetry 201

Adinazolam mesylate
- detmn. of – in feeds by HPLC 389

ADP-ribosyl arginine anomers
- detmn. of – by HPLC 489

Adsorbents
- chromatography, gas, modification of – by low-temperature plasma 458
- for organic compounds, oxygen-containing in GC 581
- ionic – in capillary chromatography, gas 458
- study of copolymers, –, structure and sorption properties 261

Adsorption systems, solid-liquid
- study of – by TLC 456

Adulterants
- detection of – in olive oil by HPLC 481

Aerobactin synthetase
- detection of – by HPLC 298

Aerosols
- anal. of – by pyrolysis-GC 385
- detmn. of bromide in atmospheric – 277

Aflatoxin B_1
- detmn. of –, citrinin, ochratoxin A, metabolites of mycotoxins in urine by HPLC 493

Aflatoxins
- detmn. of – in cattle feeds by LC and post-column derivatization 390
- detmn. of – in feeds by HPTLC 389

Agricultural products
- detmn. of dimethyldithiocarbamate residues in – by HPLC 91

Agrochemical analysis
- standard reference materials for – and food analysis: prep./charact. of bovine muscle powder 627

Air
- anal. of –, automat. sampler 385
- conductometric sensor for ppb sulfur dioxide in – 385
- detmn. of aldehydes and ketones by – by HPLC, DNP cartridges for sampling 475
- detmn. of aldrin in – by GC, Tenax GC trapping tube 286
- detmn. of amines, aliphatic in – by spectrometry 180
- detmn. of C_2–C_5 hydrocarbons in – by GC, dry ice preconc. 180
- detmn. of dust in – by gravimetry 475
- detmn. of ethylene oxide in – by GC, sampling on active charcoal 386
- detmn. of ethylene oxide in – by GC, sampling on HBr-treated charcoal 180
- detmn. of formaldehyde in –, two personal monitoring method 180
- detmn. of free ammonia in ambient – with diffusion/denuder tubes 474
- detmn. of hydrogen cyanide and cyanogen in – by automated GC 474
- detmn. of hydrogen peroxides in – by automated fluorometry 277
- detmn. of hydrogen sulfide in – by spectrophotometry with silver-gelatin complex 475
- detmn. of iodine in – by colorimetry 277
- detmn. of mercury in – by AAS after collection on MnO_2 278
- detmn. of nitrite in – and water by spectrophotometry, diazotization of 4-nitroaniline 75
- detmn. of nitrogen oxide compounds in – by chemiluminescence 475
- detmn. of nitrous oxide and nitric acid in –, sublimation sources for prep. of test mixtures 475
- detmn. of N-methylmorpholine in – by capillary GC 475

Air
– detmn. of organic and inorganic species in – and rain water by ion chromatography 474
– detmn. of organic compounds in – by GC, preconc. on Carbopack B 179
– detmn. of organic compounds, volatile in –, thermally desorbable passive sampler 179
– detmn. of ozone in – with eosin Y by chemiluminescence 277
– detmn. of phthalic anhydride in – by GC 475
– detmn. of silane in – by light-scattering method 278
– detmn. of sulfur dioxide and sulfate in –, selective simultaneous filter collection 475
– detmn. of sulfur dioxide in –, cycloaddition to 1,2-dimethylenecyclohexane 385
– detmn. of sulfur gases in – by capillary GC, water effects 386
– detmn. of sulfur gases in –, collection on metal foils 277
– detmn. of trimellitic anhydride in – by reversed-phase HPLC 180
– detmn. of volatile hydrocarbons, polycyclic aromatic in – from particulate profiles, partial least-squares regression 184
– ident. of hydrocarbons, polycyclic aromatic in diesel exhaust and – by GC/MS 183
– sampling of trace matter in ambient –, review 5

Airborne particulates
– detection of aza arenes in – by LC and GC/MS 476
– detection of phenols in – by HPLC and GC/MS 180
– detmn. of elements in – by ICP-AES 419
– detmn. of hydrocarbons, polycyclic aromatic in – by GC, cleanup 184
– extr. of biphenyls, polychlorinated from sediments, hydrocarbons, polycyclic aromatic from – by SFC 282
– physical and chemical charact. of individual –, book 565

Air pollution
– and plants, book 61

Albumin
– covalent binding of human serum – and ovalbumin by chloramine-T 594
– phase-resolved fluoroimmunoassay of human serum – 99

Albumin, glycosylated
– detmn. of – in blood plasma with alkaline nitro-blue tetrazolium 594

Alcoholic beverages
– anal. of – by chromatography 479
– detmn. of ethanol in – by headspace electrical potential measurement 479

Alcohols
– 3,4-dihydro-6,7-dimethoxy-4-methyl-3-oxo-quinoxaline-2-carbonyl chloride for derivatization of – in HPLC/fluorimetry 266
– detection of – by gas sensor with polypyrrole layer 78
– detmn. of – and methyl-tert.-butylether in gasoline by GC 470
– detmn. of fatty acids and – in wax esters of marine organisms by HPLC 196
– sepn. of – by chromatography, gel, selective packings 465

Alcohols, aliphatic
– anal. of – as dabsyl and dabnsyl derivatives by HPLC 267

Alcohols, ethoxylated
– anal. of – by CI-MS, NH_3 as reagent gas 276

Alcohols, tert.
– detmn. of – by indirect titrimetry 173

Aldehyde groups
– detmn. of reactive – by spectrophotometry, after immobilization on modified silica 78

Aldehydes
– detmn. of – and ketones by air by HPLC, DNP cartridges for sampling 475

Aldehydes, phenolic
– detmn. of – in plants by HPLC 90

Alditols
– anal. of ^{18}O- and ^{13}C-labeled permethylated – by GC/MS 592

Aldonic acids
– detmn. of 2-keto-L-gulonic acid, keto-aldonic acids and – in biological materials by HPLC 592

Aldosterone antagonist
– detmn. of – in urine by HPLC 104

Aldrin
– detmn. of – in air by GC, Tenax GC trapping tube 286

Aflatoxin M_1
– certification of – in milk powder, BCR programme 679

Aliquat 336
– sepn. of vanadium and uranium by extr. with – 463

Alkali chlorides
– photofragment fluorescence for detmn. of gas phase – 177

Alkalidene end groups
– detmn. of formaldehyde, lower carbonyl compounds and – in ng range 267

Alkali metals
– sepn. of – and alkaline earth metals by chromatography, liquid on crown-ether modified columns 576
– sepn. of – and transition metals using zirconium phosphate siliga gel as ion-exchangers 260
– structure/selectivity relationships in the liquid-liquid extr. of – and alkaline earth metals by anionic crown ethers 374

Alkaline earth metals
– modified normal pulse polarography and its differential mode to – in acid solutions 577
– sepn. of alkali metals and – by chromatography, liquid on crown-ether modified columns 576
– sepn. of – with o-cresolphthaleine complexone by HPLC 168
– structure/selectivity relationships in the liquid-liquid extr. of alkali metals and – by anionic crown ethers 374

Alkaloids
– sepn. of polyhydroxy alkaloids, – by GC 586
– titration of organic cations, surfactants and – by amphimetry with electrochem. indication 123

Alkanes, n-
– anal. of – in kerosenes by capillary GC 273
– sepn. of C_9–C_{11}-alkenes, n- and – by high resolution GC 77

Alkenes, n-
– sepn. of C_9–C_{11}– and alkanes, n- by high resolution GC 77

Alkylacyl glycerophosphocholine
– sepn. of dimethylphosphatidates of – in leucocytes by HPLC 398

Alkyl-agarose
– chromatography, liquid, – as sorbent 372

Alkylamines
– detmn. of – in soils by LC, indirect photometric detection as Cu(II) 89

Alkylammonium thiocyanates
– chromatography, gas, – as stationary phases 68

Alkylbenzenes
– anal. of hydrocarbons, aromatic, – by mass spectrometry, methane high pressure collisional activation 570

Alkylbenzene sulfonates
– detmn. of linear – in sewage sludges, soils and sediments by HPLC 388
– detmn. of linear – in water and waste water 281

Alkylbenzyldimethylammonium chlorides
– sepn. of n– by HPLC on cyclodextrin-bonded silica 270

Alkyl benzyl maleates
– sepn. of C_1–C_{10} – by GC/MS 270

Alkyl esters
– sepn. of C_1–C_{12} n– of benzoic acid, 4-nitrobenzoic acid and 3,5-dinitrobenzoic acid by capillary GC 79

Alkyllead
– detmn. of total ionic – in water by electrothermal AAS 279

Alkylphenol ethoxylates
– detmn. of – in environmental samples by HPLC/fluorimetry 276

Alkyltrimethylammonium compounds
– anal. of – and dialkyldimethylammonium compounds by GC 276

Alloys
– detmn. of boron in – and fly ashes by thermal neutron/γ-spectrometry 380
– detmn. of elements in – by spectrometry, atomic emission with hollow cathode plume 80
– detmn. of lead and cadmium in metals, colored and – by AAS 81
– detmn. of manganese in – with diantipyrylmethane by spectrophotometry 81
– detmn. of platinum in – by thermometric titration 82
– detmn. of sulfur in – and salts with triphenyltetrazolium derivatives by spectrophotometry 81
– detmn. of tungsten in – and ores by AAS, hydroxide precipitation of interfering metals 81
– detmn. of zinc in biological materials, wine and – by fluorimetry 484
– investigation of Cu-Ni and Ag-Pd – with mass analyzer, laser microprobe (LAMMA) 80

Alprazolam
– electrochem. behavior of – and assay of its formulations 127

Alprenolol
– sepn. of aminoalcohols, β-blockers, –, metoprolol and propranolol enantiomers by ion-pair chromatography with new chiral counter ion 588

Aluminum
– choice of an anal. Zeeman AAS wavelength for – 168
– detmn. of – and beryllium with fluoride by titration 168
– detmn. of – by spectrometry, atomic absorption, thorium-treated L'vov platform 168
– detmn. of fluoride with ion-selective electrodes, masking of – 584
– detmn. of – in biological materials by AAS 395
– detmn. of – in biological materials by Zeeman-corrected AAS 591
– detmn. of – in blood serum by electrothermal AAS, recent developments 192
– detmn. of – in iron by electrothermal AAS 583
– detmn. of – in natural water with chrome azurole S by colorimetry, reactivity of hydrolysed aluminum species 181
– detmn. of – in presence of amino acids by bis-salicylidene-ethylenediamine by fluorimetry 289
– detmn. of – in water with pyrocatechol violet by flow injection/spectrophotometry 477
– detmn. of silicon in – by AAS, effect of ethanol 524
– detmn. of sulfur, phosphorus, magnesium, silicon and – in washing powders by XRF spectrometry 276
– detmn. of – traces (ppb) in hemodialysis solutions by fluorimetry 484
– fibre-optic titrations of – with DCTA 577
– photometry, detmn. of traces of metals, Part IIa, – to lithium, book 61
– sepn. of chromium(III), cobalt(III) and – as acetylacetonates by GC 463
– sepn. of molybdenum, –, cobalt and copper as oxinates by reversed-phase HPLC 170

Aluminum brass
– anal. of corrosion products of – in sea water, comparison between methods 177
Aluminum oxide
– detmn. of impurities in high-purity – by ICP-AES, coprecitation with zirconium hydroxide 381
– detmn. of impurities in high-purity – by spark source MS 381
– detmn. of trace impurities in gigh-purity – by ICP-AES 379
Americium(III)
– detmn. of – with Arsenazo III by extr. spectrophotometry 578
Amide derivatives
– thermal analysis of – of N,N-dialkylaminobenzene 277
Amide nitrogen
– sepn. of amino acids and – from plant extracts for ^{15}N emission spectrometry 184
Amides
– sepn. of enantiomeric – by HPLC on chiral cellulose phase 390
– steric and electronic effects in the resolution of enantiomeric – using HPLC 268
Amines
– detmn. of – by silver sulfide ion-selective electrode 267
– sepn. of berkelium(IV) by extr. with – and phosphotungstate 578
Amines, aliphatic
– detmn. of – in air by spectrometry 180
– indirect fluorescent visualization of – 78
Amines, aromatic
– detmn. of – in sea water by HPLC 281
– detmn. of – with the diazotization and coupling spectrophotometric technique 79
Amines, prim.
– anal. of – and amines, sec. as o-acetylsalicyl polymer derivatives by HPLC 465
– detmn. of – by flow-injection anal. with fluorimetric detection 78
– effect of stationary phase on retention indices of dimethylformamidines, dimethylacetamidines and – 268
Amines, prim. aromatic
– detmn. of – and nitrogen compounds, basic in coal liquefaction products by GC/MS 272
Amines, sec.
– anal. of amines, prim. and – as o-acetylsalicyl polymer derivatives by HPLC 465
Amino acid decarboxylase
– detection of aromatic L– in blood plasma by HPLC/fluorimetry 202
Amino acid enantiomers
– resolution of – by HPLC, precolumn derivatization 101
– sepn. of – by micro HPLC with β-cyclodextrin mobile phases 101
Amino acids
– anal. of – in brain tissue and urine by automated GC 291
– anal. of – in protein hydrolysates by HPLC, as phenylthiocarbamyl derivatives 103
– anal. of prim. and sec. – by high-resolution reversed-phase LC 268
– detection of – and imino acids with ninhydrin at 405 nm 593
– detmn. of aluminum in presence of – by bis-salicylidene-ethylenediamine by fluorimetry 289
– detmn. of – and peptides by chromatography, liquid with crown ethers mobile phases 101
– detmn. of carboxcylic acids und – by mass spectrometry, laser 78
– detmn. of enantiomeric ratios of – without chiral sepn. by HPLC 468
– detmn. of – in proteins as dabsyl derivates by reversed-phase HPLC 103
Amino acids
– enrichment of – and carboxylic acids in environmental materials on copper-loaded silica/HPLC 388
– enzymatic detmn. of cholesterol, L– and linoleic acid with a novel redox indicator system 293
– fluorescence quenching for measuring complex formation between metal ions and aromatic – 70
– GLC of – with Sulpelcoport as solid support 468
– sepn. of – and amide nitrogen from plant extracts for ^{15}N emission spectrometry 184
– sepn. of – as phenylthiohydantoin derivatives by HPLC 101
– sepn. of – by HPLC and TLC with lissamine rhodamine B sulfonylchloride 194
– sepn. of – by reversed-phase TLC on mixed supports 485
– sepn. of – of collagen hydrolysates by HPLC 396
β-Amino acids
– sepn. of enantiomers of – by LC using a chiral stationary phase 467
Amino acids, sulfur-containing
– sepn. of – on graphitized carbon black by GC/MS 194
Aminoalcohols
– sepn. of –, β-blockers, alprenolol, metoprolol and propranolol enantiomers by ion-pair chromatography with new chiral counter ion 588
Aminobenzenesulfonic acids
– detmn. of o– as sulfonyl chlorides by GC 270
Aminobenzoic acid, p-
– detmn. of – monoglyceryl-p-amino-benzoate and benzocaine in cosmetics by HPLC 394
Aminobenzoic acids
– detmn. of – by iodometry 468
1-Aminocyclopropane-1-carboxylic acid
– anal. of – in apples by reversed-phase HPLC 186
Aminoethanol
– sepn. of –, choline and related compounds in plants by reversed-phase HPLC 184
Aminoethanol-diphenylborate-PEG400
– detection of flavonoids with – 90
2-Aminofluorene
– detmn. of – in tissues, animal, cells by HPLC 100
Aminoglycoside antibiotics
– sepn. of – by HPLC 392
2-Amino-3-hydroxypyridine
– detmn. of palladium(II) with – by polarography 379
5-Aminolevulinic acid
– fluorimetric detmn. of – after derivation and sepn. by RP-HPLC 268
S-2-(3-aminopropylamino)ethanethiol
– detmn. of – in blood and tissues by LC 201
Aminopropyltransferases
– rapid nonchromatographic assay for – 202
(3-Aminopropyl)triethoxysilane
– detmn. of – on silica gels surface using diffuse reflectance TF-IR spectrometry 162
Amino sugars
– detmn. of desmosine, isodesmosine, 5-hydroxylysine, tryptophan, lysinoalanine and – in proteins and tissues by amino acid anal. 195
Amiodarone
– detmn. of – in blood plasma by HPLC 295
Amitrole
– detmn. of – in biological materials by ion-pair HPLC 757
Ammonia
– detmn. of – and urea in water, conc. of indophenol at Amberlite XAD-7 280
– detmn. of – by fiber optic gas sensing probe 169
Ammonia
– detmn. of free – in ambient air with diffusion/denuder tubes 474
– detmn. of – in shale oils retort water 272
– detmn. of – in wine and milk with gas-sensing probe 479
– sensor, fibre-optic fluorescing for – 376
Ammonia sensor
– micro – 100
Ammonium
– detmn. of – in buddingtonite by ion chromatography 179
Ammonium ions
– complex formation of – in water with tetramines, cyclic using MICMAC 169
Amphetamine
– detmn. of – using constant energy synchronous luminescence spectroscopy 98
Amphimetry
– titration of organic cations, surfactants and alkaloids by – with electrochem. indication 123
Amyloglucosidase
– detmn. of – using p-nitrophenyl-α-D-glucopyranoside and flow injection anal. 596
Analytical chemistry
– , an autonomous field of science 308
– chemometrical strategies in – 314
– : deduction versus induction 324
– expert systems in – 203
– fascination and essentials in – 305
– , handbook of methods 564
– , methods as systems producing chemical information by inference 317
– , philosophy of synthetic and analytical thinking 320
– the position of –, critical outlook 301
Analytical methods
– in chemistry, introduction, book 365
– limit of decision, limit of detection and limit of determination of – 331
Androgens
– detmn. of estrogens and – in pharmaceutical products by UV-densitometry 393
Androstenone
– detmn. of – in pig adipose tissue by GC 188
Anilines
– detmn. of lipophilicity of – by reversed-phase TLC 468
Animal products
– residue analysis of pesticides in –, book 160
Anions
– sepn. of – with 1-(1′-oxido-4′-pyridyl)-2-piperidinoethyl-4-nitrobenzoate 70
Anions, electroinactive
– polypyrrole electrode as detector for – by flow injection analysis 460
Anions, inorganic
– sepn. of – by chromatography, ion 464
Anisaldehyde-4-phenyl-3-thiosemicarbazone
– detmn. of copper with – by extr. spectrophotometry 168
Anisic acid
– fluorescence study of isomers of toluic acid and – 582
Anisole
– sepn. of halogenated derivatives of cyclohexane, benzene and – by GC 270
Anthracene
– sepn. of – and benzo[a]pyrene from soils by extr. 89
Anthralin
– detmn. of – and degradation products by HPLC 286
Anthranilic acid
– anal. of – by LC 79
Anthraquinones
– sepn. of – in rhubarb by HPLC 186
Anthropogenic compounds
– detection of – in sediments and soils by flash evaporation GC/MS 474

Antibiotics
– sepn. of aromatic heptaene – by HPLC 96
Antibodies
– immobilized – in saturation analysis, radioimmunoassay and competitive protein binding 192
Anticonvulsants
– detmn. of –, comparison of enzyme immunoassay and fluorescent polarisation immunoassay 588
– detmn. of nitrogen-containing – and opium alkaloids in blood by GLC/thermoaerosol detector 492
Antidepressants
– detmn. of – in blood plasma by capillary GC with N-P detection 490
Antidepressants, tricyclic
– detmn. of – in biological fluids by voltammetry 198
Antigen-antibody complexes
– detection of – by immunobinding assay, cross-blot and cross-dot 394
Antiharzial compounds
– detmn. of antimony(III) in – by titration with bromosuccinimide, N- 393
Antihistamines
– detmn. of – by polarography, complexation with Cd(II) 287
Anti-inflammatory agents
– detection of non-steroidal – on TLC plates with fluorescent mixtures 588
– detmn. of – in blood serum by LC 294
– sepn. of 2-arylpropionic acids, – in biological fluids as amphetamine derivatives by GC 294
Anti-insulin antibodies
– immunoassay of – in guinea pig serum 99
Antimicrobial agents
– detmn. of – in biological fluids by HPLC 491
Antimony
– detmn. of – and selenium in water by hydride generation AAS 181
– detmn. of arsenic and – in standard reference materials via isotopic tracers by radiochemical activation analysis, neutron 733
– detmn. of arsenic, –, selenium and tellurium in silicate rocks and sulfide ores by hydride generation ICP-AES 88
– detmn. of – by spectrofluorimetry 73
– detmn. of – in metals, colored by oscillopolarography 81
– detmn. of mixed-ligand complexes of – in organo-aqueous solution by polarography 74
Antimony(III)
– detmn. of dissolved in organic antimony(V) and – in natural water by hydride generation AAS 181
– sepn. of – from antimony(V) by extr. with MIBK/ammonium tetramethylenedithiocarbamate 74
Antimony(V)
– detmn. of – and halogenates with 2,2′-diquinoxalyl by spectrophotometry 575
– detmn. of dissolved in organic – and antimony (III) in natural water by hydride generation AAS 181
– sepn. of antimony(III) from – by extr. with MIBK/ammonium tetramethylenedithiocarbamate 74
Antimonyorgano compounds
– detmn. of carbon and hydrogen in –, halogen interference 466
– Gmelin handbook, –, part. 4 259
Antimony(III)
– detmn. of – in antiharzial compounds by titration with bromosuccinimide, N- 393
α_1-Anti-trypsin
– sepn. of α_1-acid glycoprotein from – in blood plasma by HPLC using hydroxyapatite column 595
Antiviral nucleoside analogs
– detmn. of – in DNA by HPLC 596
Apatite
– detmn. of carbonates in – by gravimetry 179
Apatites
– detmn. of carbonate in – by gravimetry, loss of CO_2 after HCl-treatment 384
Apolipoprotein A-I
– detmn. of – in blood serum by zone immunoelectrophoresis 595
Apolipoproteins
– detmn. of – in blood serum by ELISA 486
Apples
– anal. of 1-aminocyclopropane-1-carboxylic acid in – by reversed-phase HPLC 186
Archeological materials
– anal., non-destructive, of – by ED-XRF 237
Arginase
– assay of – by colorimetry 298
Arginine
– detmn. of – in blood plasma of cows by HPLC 194
Argon
– detmn. of oxygen-containing impurities in nitrogen and – by spectrometry, metastable transfer emission 278
Aroclors
– anal. of – by automated GC/MS 482
Aromatic compounds
– detmn. of traces of – by laser two-photon ionization 79
– spectrometry, NMR of olefins and – with silver-ytterbium binuclear shift reagents 269
Aromatic compounds, polychlorinated
– detmn. of –, total and chloro-paraffins by GC 751
Arsenazo III
– detmn. of americium(III) with – by extr. spectrophotometry 578
Arsenic
– detmn. of – and antimony in standard reference materials via isotopic tracers by radiochemical activation analysis, neutron 733
– detmn. of –, antimony, selenium and tellurium in silicate rocks and sulfide ores by hydride generation ICP-AES 88
– detmn. of – by d.p.p after extraction of $AsCl_3$ 766
– detmn. of – by electrothermal AAS, iodine-based trapping solution for arsine 73
– detmn. of – by hydride generation flow-injection analysis and molecular emission cavity analysis 73
– detmn. of – by hydride generation with a long absorption cell for AAS 169
– detmn. of – in environmental materials by different anal. techniques 278
– detmn. of – in glycerine by flow injection, hydride generation and ICP-AES 288
– detmn. of – in urine by electrothermal AAS, L'vov platform and matrix modification 192
– detmn. of – in water by spectrophotometry, arsine-silver-diethyldithiocarbamate-morpholine-chlorform system 478
– detmn. of mercury, – and selenium in environmental materials by radiochem. NAA 278
– detmn. of –, selenium and cadmium in marine biological tissues using STPF Zeeman AAS 388
– detmn. of traces – in biological materials by AAS using miniatur cup for solid sampling 53
– detmn. of – with graphite-cloth ribbon in graphite-furnace AAS 73
– hydride generation AAS of – in marine sediments, marine organisms and sea water with in situ conc. 387
Arsenic(III)
– detmn. of – and arsenic(V) in metallurgical processing solutions by ion chromatography 176
Arsenic(III)
– liquid-liquid extraction of –, arsenic(V), methylarsonate and dimethylarsinate 382
Arsenic(V)
– detmn. of arsenic(III) and – in metallurgical processing solutions by ion chromatography 176
– liquid-liquid extraction of arsenic(III), –, methylarsonate and dimethylarsinate 382
Arsenic species
– detmn. of – in cell cultures by HPLC/ICP-AES 484
Arson
– anal. by second derivative UV spectrometry 85
Arsonium compounds, quaternary
– anal. of – by pyrolysis/GC 581
Arylic acid alkyl esters
– sepn. of – and methacrylic acid alkyl esters by GC/MS 271
2-Arylpropionic acids
– sepn. of –, anti-inflammatory agents in biological fluids as amphetamine derivatives by GC 294
Ascorbic acid
– detection of –, hydrazine and hydroxylamine at copper electrode and LC 271
– detmn. of – by generation of triiodide, FIA/spectralphotometry 189
– detmn. of cysteine, glutathione and – by simult. spectrophotometry after iodine-azide reaction 268
– detmn. of dopamine and – by a.c. voltammetry 194
– detmn. of – in beverages, fruit juices by UV spectrometry 481
– detmn. of selenium(IV) with – by titration 377
– plant tissue-based biosensors for L– 390
Asparagine
– capillary GC micro-assay for pyroglutamic acid. glutamic acid, aspartic acid, glutamine and – in physiological samples 291
Aspartate aminotransferase
– detmn. of mitochondrial – in blood serum by enzyme immunoassay 202
Aspartic acid
– capillary GC micro-assay for pyroglutamic acid. glutamic acid, –, glutamine and asparagine in physiological samples 291
– detmn. of optical purity in partially racemized samples of L– 268
Aspartylpeptides
– sepn. of –, peptides by HPLC 195
Atmospheric chemistry
– , fundamentals and experimental techniques, book 365
Atom lines
– distribution of radial intensity of – and ion lines in spectrometry, ICP, argon 49
ATPase
– direct colorimetric assay for Ca^{+}227-stimulated – activity 489
ATP sulfurylase
– assay for inorganic pyrophosphate with – by spectrophotometry 591
– assay of – by HPLC 202
Atrazine
– study of solution phase complexing of – by fulvic acid 286
Automobile exhausts
– detmn. of formaldehyde in – by FT-IR spectrometry 180
Avidin
– detmn. of biotin, – and streptavidin by enzyme assay 481
Aza arenes
– detection of – in airborne particulates by LC and GC/MS 476
– detmn. of – in foods, meat by GC 188
8-Azagonane-12-one isomers
– sepn. of – by HPLC 97

Azide
– detmn. of – in wine by HPLC 284
Azo dyes, sulfonated
– detmn. of – and their bacterial metabolites by HPLC 277
Azomethine H
– detmn. of boron in glass with – by spectrophotometry 383
Azo proteins
– detmn. of azo-coupled lysine in – by amino acid anal. 195

B

Bacterial systems
– anal. of cobamides from – by HPLC 197
Bamipine
– detmn. of bromochlorosalicylanilide and – in pharmaceutical products by HPLC 391
Barbiturates
– anal. of – by capillary GC 95
– sepn. and detmn. of – by HPLC 95
– sepn. of – and pyrazolones by HPTLC on precoated plates 95
– sepn. of – by HPLC, retention reproducibility 588
– sepn. of chiral – by HPLC with cyclodextrin mobile phases 391
Barium
– detmn. of –, lanthanum, cerium and neodymium in lateritic materials by XRF and NAA 88
Barium titanate
– detmn. of impurities in – by ICP-AES 381
Bark beetles
– sepn. of pheromones of – by HPLC 197
Barley
– detmn. of citrinin and ochratoxin A in wheat and – by HPLC 91
Beer
– detmn. of ethanol in alcohol-free – by enzymatic method 92
Benzaldehyde
– detmn. of benzyl alcohol and – in pharmaceutical creams by HPLC/UV detection 98
Benz[a]anthracene trans-dihydrodiols
– sepn. of – by HPLC with chiral stationary phase 183
Benzanthrone
– detmn. of – in biological materials by fluorimetry 493
Benzene
– sepn. of halogenated derivatives of cyclohexane, – and anisole by GC 270
Benzene derivatives
– retention of – on liquid crystals in chromatography, liquid 455
Benzenepolycarboxylate
– buffers in chromatography, ion 454
Benzidine
– detmn. of – and its derivatives by voltammetry at glassy-carbon electrode 471
– trace anal. of selected – and diaminodiphenylmethane derivatives in urine by LC 297
Benzocaine
– detmn. of aminobenzoic acid, p- monoglyceryl-p-amino-benzoate and – in cosmetics by HPLC 394
Benzodiazepines
– anal. of – by TLC, HPLC, GLC 96
– sepn. of – by HPLC 96
– TLC screening of 1,4– in biological materials, book 565
Benzohydroxamic acid
– detmn. of manganese with – by extr. spectrophotometry 377
Benzoic acid
– sepn. of C_1–C_{12} n-alkyl esters of –, 4-nitrobenzoic acid and 3,5-dinitrobenzoic acid by capillary GC 79
Benzoic acid esters, chlorinated
– anal. of – and nitrobenzoic acid esters, chlorinated by GLC 270
Benzoic acids
– sepn. of positional isomers of substituted – by HPLC 270
Benzoic acids, halogen-substituted
– fluorescence quantum efficiences of isomers of – 270
Benzophenone
– detmn. of cobalt in steel by spectrophotometry after extr. with microcrystalline – 378
Benz[a]pyrene
– detmn. of – in hemoglobin by HPLC 298
– sepn. of anthracene and – from soils by extr. 89
Benzoquinones
– sepn. of – of sarcodontia setosa by HPLC 390
Benzothiophenes
– retention indices of C_1- and C_2-alkylated – in GC 79
Benzotriazole
– sepn. of palladium(II) with 1,2,3–– by extr. 464
Benzoylhydrazine
– detmn. of – by polarography 582
Benzyl alcohol
– detmn. of – and benzaldehyde in pharmaceutical creams by HPLC/UV detection 98
Benzylamino-N,N-di(methanephosphonic)acid
– detmn. of copper(II) by potentiometric titration with – 71
2-Benzylideneiminobenzohydroxamic acids
– detmn. of molybdenum(VI) with – by spectrophotometry 463
Benzylpenicillin
– detmn. of – and probenecid in body fluids by HPLC 491
Benzyl 2-pyridyl ketone 2-quinoylhydrazone
– detmn. of dissociation constants and chromogenic reactions of – 575
Benzyltriethyl ammonium chloride
– detmn. of molybdenum with – and thiocyanate by extr. spectrophotometry 579
Berkelium(IV)
– sepn. of – by extr. with amines and phosphotungstate 578
Beryllium
– detmn. of aluminum and – with fluoride by titration 168
– detmn. of – by spectrophotometry, nonionic surfactant micelles 168
– detmn. of – in bronzes with Chromazurol S by spectrophotometry 80
– detmn. of – in soils by flameless AAS with Zr-coated graphite tubes 40
– detmn. of – in urine with electrothermal AAS 289
– detmn. of – in water by GC/ECD 477
– Gmelin handbook, –, suppl. vol. A1, the element 453
Betaine esters
– sepn. of – in plants by HPLC 185
Betaxolol
– detmn. of – enantiomers in biological fluids by HPLC 198
Beverages
– anal. of carboxylic acids in foods and – as p-nitrobenzyl esters by HPLC 283
– anal. of –, graphical sensory profiles of organoleptic tests 282
– detmn. of ascorbic acid in –, fruit juices by UV spectrometry 481
– shelf life of foods and –, book 366
Bicinchonic acid
– detmn. of protein with – on microtiter plates 103
Bile
– detmn. of 2-(p-chlorophenyl)pyrazol[4,3-c]-quinoline-3(5H)-one in blood plasma, urine and – by HPLC 295
Bile acids
– detmn. of – as trimethylsilyl ether derivatives in liver cells by GC/MS 488
– sepn. of allo – as methyl esters by TLC and HPLC 488
Bilipeptides
– detection of biliproteins and – in electrophoresis with zinc acetate 488
Biliproteins
– detection of – and bilipeptides in electrophoresis with zinc acetate 488
Bilirubin
– detmn. of fluorescein by immunoassay, elimination of – interference 191
Bioanalytical systems
– based on flow-through tube biocatalytic reactors, mathematical modelling 98
Biocatalytic reactors
– bioanalytical systems based on flow-through tube –, mathematical modelling 98
Biochemical reagents
– color test for – with cupric chloride 99
Biodegradation
– of tensides by mass spectrometry, field desorption 43
Biological cultures
– ident. of new elloramycins in – by HPLC and diode array detection 392
Biological fluids
– anal. of chloroquine and desethylchloroquine in – by HPLC 491
– anal. of dihydroxyeicosatetraneoic acids in – by GC/MS 200
– detmn. of 4-hydroxyestriol monoglucuronides in – by HPLC with electrochem. detection 200
– detmn. of antidepressants, tricyclic in – by voltammetry 198
– detmn. of antimicrobial agents in – by HPLC 491
– detmn. of betaxolol enantiomers in – by HPLC 198
– detmn. of didemnin B in – by HPLC 199
– detmn. of ibuprofen metabolites in – by HPLC 197
– detmn. of leukotrienes in – by GC/MS 291
– detmn. of mercury in – by cold vapor AAS 591
– detmn. of perhexiline in – by GC/ECD 490
– detmn. of phenacemide in – by HPLC 197
– detmn. of serotonin in – by extr. and HPLC 485
– enantioselective GC assay for d,l-threo-methylphenidate in – 295
– sepn. of 2-arylpropionic acids, anti-inflammatory agents in – as amphetamine derivatives by GC 294
Biological materials
– accuracy in analyses of – 613
– anal. of – by enzymatic solubilization, pre-column technique and HPLC 483
– anal. of fatty acid methyl esters and dimethyl acetals in – by capillary GC 104
– anal. of fenbendazole in – 294
– anal. of leukotrienes and hydroxyeicosatetraenoic acids in – by HPLC, solid phase extr. 292
– anal. of trace elements in – using human body fluids as reference materials 639
– detmn. of 2-keto-L-gulonic acid, keto-aldonic acids and aldonic acids in – by HPLC 592
– detmn. of aluminum in – by AAS 395
– detmn. of aluminum in – by Zeeman-corrected AAS 591
– detmn. of amitrole in – by ion-pair HPLC 757
– detmn. of benzanthrone in – by fluorimetry 493
– detmn. of cadmium, copper, lead and zinc in – by AAS 395
– detmn. of cholesterol, plasmalogens and fatty acids in – by TLC-FID on chromarods 595
– detmn. of copper, zinc and cadmium in solid suspensions of – by flame AAS and ICP-AES 345

Biological materials
- detmn. of denzimol in – by GC and HPLC 198
- detmn. of deuterium oxide in – by IR spectrometry 590
- detmn. of diamidines, trypanocidal in – by TLC 297
- detmn. of elements in – by SI mass spectrometry, ashed specimens 394
- detmn. of ethyltin compounds in – by HPLC/AAS 591
- detmn. of glutathione disulfide in – by spectrophotometry 396
- detmn. of glutathione in – by LC with glassy carbon electrode 396
- detmn. of lead and cadmium in – by potentiometric stripping analysis 350
- detmn. of major elements and trace elements in – by AAS, high reliability 739
- detmn. of mercury in – by cold vapor AAS 395
- detmn. of molybdenum in – by AAS 484
- detmn. of morphine, monobutanoylmorphine and dibutanoylmorphine in – by GC/MS 493
- detmn. of nordihydroguaiaretic acid in – by HPLC 493
- detmn. of organic polluants in marine sediments and –, cleanup methods 474
- detmn. of proline and hydroxyproline in – by HPLC 102
- detmn. of pyrene in rat tissue, – 157
- detmn. of selenium in – by HPTLC 395
- detmn. of selenium traces in – by NAA after dithiocarbamate extr. 484
- detmn. of sodium in – by spectrometry, atomic absorption with Mo-microtube 132
- detmn. of styrene in – by HPLC 100
- detmn. of sucrose and fructose in – by TLC and video densitometry 484
- detmn. of sulfur in –, comparison of XRF and combustion-IR methods 289
- detmn. of trace elements in – by voltammetry with high-pressure ashing system 142
- detmn. of traces arsenic in – by AAS using miniatur cup for solid sampling 53
- detmn. of trichlorfon in – and technical products by GC after derivatization 241
- detmn. of uric acid in – by LC, uricase for peak ident. 290
- detmn. of zinc in –, wine and alloys by fluorimetry 484
- quality control in toxicological analysis of – in the field of occupational medicine, experiences from round-robins 643
- sepn. of acylcarnitines from – by HPLC 292
- sepn. of adenine nucleotides in – by HPLC 201
- sepn. of tetrapyrroles from – by HPLC 297
- TLC screening of 1,4-benzodiazepines in –, book 565

Biological reference materials
- anal. of – by spectrometry, PIXE 736
- anal. of –, IAEA horse kidney (H-8), by INA 730
- cadmium induced proteins from marine organism as – for environmental analysis 719
- detmn. of cadmium in – by AAS/column preconc. 192
- for trace elements analysis, survey and evaluation 601
- from US National Bureau of Standards 609
- marine – for trace elements 712
- tools for preparation of – 744

Biological samples
- detmn. of tocopherols, ubiquinols and ubiquinones in – by HPLC with UV detection 487

Biological substances
- dependance of sepn. of some – on the carbon content of C_{18} chemically bonded phase 394

Biological tissues
- detmn. of arsenic, selenium and cadmium in marine – using STPF Zeeman AAS 388

Biological tissues
- detmn. of heavy metals in urine and – by DPASV 192

Biosensors
- plant tissue-based – for L-ascorbic acid 390

Biotin
- detmn. of –, avidin and streptavidin by enzyme assay 481
- detmn. of – in blood serum by chemi-luminescence energy transfer 196

Biotinidase
- detmn. of – in blood serum by fluorimetry 298

Biphenyls, polychlorinated
- anal. of chlorinated pesticides and – by automated GC/MS, precision 482
- anal. of methylsulfone metabolites of – in tissues by capillary GC 297
- detmn. of – by dechlorination to biphenyl 747
- detmn. of – by methane positive chemical ionization GC/MS 282
- detmn. of – in oils by GC/ECD 471
- extr. of – from sediments, hydrocarbons, polycyclic aromatic from airborne particulates by SFC 282
- identification of – congeners in technical mixtures and environmental samples by HRGC-ECD/HRGC-MSD 253
- routine anal. of – in environmental samples, fish by capillary GC with ECD 388

Bisacetylmonoxime 2-pyridylhydrazone
- detmn. of cobalt with – by spectrophotometry 378

Bis-anthracyclines
- resolution of – by HPLC, ammonium bicarbonate mediated 96

Bismuth
- detection of – with NH_4SCN by capillary spot test 376
- detmn. of – and tin in tungsten concentrates by spectrometry 81
- detmn. of – in geological materials by automated hydride generation AAS 473
- detmn. of – in pharmaceutical products with music acid by spectrophotometry 587
- detmn. of – in semiconductor materials by amperometric titration with mercapto-ethyl-amino-N,N,S-triacetic acid 82
- preconc. and detmn. of ultratraces of lead and – 463

Bismuth-210
- sepn. of lead-210, – and polonium-210 by deposition on metal foils 585

Bisphenol A diglycidyl ether
- detmn. of – bisphenol F diglycidyl ether in water by HPLC 182

Bisphenol F diglycidyl ether
- detmn. of bisphenol A diglycidyl ether – in water by HPLC 182

Black currant products
- detmn. of flavonoids in – by HPLC 283

β-Blockers
- anal. of – by LC, capacity factor as indicator for lipophilicity 287
- sepn. of aminoalcohols, –, alprenolol, metoprolol and propranolol enantiomers by ion-pair chromatography with new chiral counter ion 588
- sepn. of metoprolol, propranolol, – as cyclic carbamates by HPLC 391

Blood
- anal. of chlorthalidone in – by HPLC 299
- anal. of lead and cadmium in –, quality control 647
- anal. of lead in – by application of standard materials and standard reference materials 656
- anal. of trichothecenes, mycotoxins in human – by capillary GC/CI-MS 399
- detection of trichothecenes in human – by capillary GC/MS 399

Blood
- detmn. of acemetacin and indometacin in blood plasma and – by HPLC 294
- detmn. of cadmium in – by flameless AAS 192
- detmn. of carbon dioxide partial pressure in – by potentiometric sensor 288
- detmn. of cyanide in environmental samples and –, review 464
- detmn. of ethanol in – by two TD_x assays 396
- detmn. of glucose in – using an enzyme electrode with extended linearity 100
- detmn. of iodinated contrast media in – by HPLC and TLC 494
- detmn. of lead in – by AAS 591
- detmn. of manganese in – by AAS 395
- detmn. of nitrogen-containing anticonvulsants and opium alkaloids in – by GLC/thermo-aerosol detector 492
- detmn. of penicillamine and acetylcysteine in – by HPLC with electrochem. detection 491
- detmn. of phenylalanine and tyrosine in – spots on filter paper by HPLC 593
- detmn. of S-2-(3-aminopropylamino)-ethanethiol in – and tissues by LC 201
- detmn. of selenium in –, blood plasma and blood serum by electrothermal AAS, iron interference 290
- detmn. of triazolobenzodiazepine, estazolam in – and urine by HPLC 493
- ident. of epoxyoctadecaenoate esters in – by GC/MS 593

Blood plasma
- anal. of 1-(2-pyrimidinyl)piperazine in – by capillary GC/MS 294
- anal. of dihydropyridines, nifedipine in pharmaceutical products and – by HPLC with electrochem. detection 190
- anal. of Evans Blue in – by HPLC 483
- anal. of milrinone in – by HPLC 199
- detection of aromatic L-amino acid decarboxylase in – by HPLC/fluorimetry 202
- detection of trichothecenes in – and urine by GC/ECD 493
- detmn. of 1–(2-chloroethyl)-3-(trans-4-methyl-cyclohexyl)-1-nitrosourea in – by GC 491
- detmn. of 2-(p-chlorophenyl)pyrazol[4,3-c]-quinoline-3(5H)-one in –, urine and bile by HPLC 295
- detmn. of 5-formyltetrahydrofolic acid and folates in – by microbiolog. assay 197
- detmn. of Δ^9-tetrahydrocannabinol metabolites in – and urine by GC/MS and EMIT 493
- detmn. of acemetacin and indometacin in – and blood by HPLC 294
- detmn. of adenosine and inosine in – with immobilized enzyme columns, FIA, fluorimetry 595
- detmn. of albumin, glycosylated in – with alkaline nitro-blue tetrazolium 594
- detmn. of amiodarone in – by HPLC 295
- detmn. of antidepressants in – by capillary GC with N-P detection 490
- detmn. of arginine in – of cows by HPLC 194
- detmn. of bromazepam in – by GC with ECD 198
- detmn. of bucindolol in – by capillary GC/MS 295
- detmn. of calcium and magnesium in – electrolyte solution by ion chromatography 289
- detmn. of cannabinoids in – by GC, solid-supported derivatization reagents 297
- detmn. of catecholamines in – by HPLC 194
- detmn. of catecholamines in – by radio-enzymatic assay, stability of standards 290
- detmn. of cinnamic acid in – by capillary tube electrophoresis 593
- detmn. of clavulanate in – and urine by HPLC/fluorimetry 199

Blood plasma
– detmn. of codeine and chlorpheniramine in – by capillary GC 492
– detmn. of cyproheptadine in – and urine by HPLC 199
– detmn. of desferrioxamine in – and urine by AAS after extr. 490
– detmn. of deuterium-labeled fatty acids in – by GC/MS 592
– detmn. of dexamethasone in – by HPLC 199
– detmn. of diethylstilbestrol in – by HPLC 200
– detmn. of doxapram and 2-ketodoxapram in – by GC 198
– detmn. of endogenous compounds and exogenous compounds in – by HPLC, derivatization 485
– detmn. of estradiol-17β in – by chemiluminescent enzyme immunoassay 595
– detmn. of fenoctimine in – by capillary GC with N-P-detector 294
– detmn. of fenoldopam, glucuronides in – and urine by HPLC with electrochem. detection 198
– detmn. of folate monoglutamates in – by HPLC 488
– detmn. of haloperidol in – by reversed-phase HPLC 295
– detmn. of higher fatty acids in – by GC 593
– detmn. of hypoglycaemic drugs in – by GC/MS 199
– detmn. of iron in intraocular fluids and – by electrothermal AAS 193
– detmn. of ketobemidone in – by HPLC with electrochem. detection 197
– detmn. of leupeptin in – by competitive binding radioassay 594
– detmn. of lidocaine in – by ferrocene mediated immunoassay 197
– detmn. of mefloquine in – by HPLC 296
– detmn. of metapramine, imipramine trimipramine and metabolites in – by HPLC 198
– detmn. of metformin and phenformin in – and urine by reversed-phase HPLC 199
– detmn. of minoxidil in – by HPLC with electrochem. detection 490
– detmn. of morphine, morphine-6-glucuronide and normorphine in – and urine by HPLC with electrochem. detection 200
– detmn. of nickel in – by Zeeman-corrected AAS 591
– detmn. of nicotine and cotinine in – by GC 493
– detmn. of nifedipine in – by capillary GC/ECD 490
– detmn. of oxolinic acid in chicken – by HPLC 587
– detmn. of phenothiazines in – by bromination and HPLC/fluorimetry 295
– detmn. of pirenzepine in – by HPLC 197
– detmn. of prednisolone, prednisone, cortisone and hydrocortisone in – by solid-phase and liquid-liquid extr. 294
– detmn. of qinghaosu in – by HPLC with precolumn 296
– detmn. of Ro-14-1761, cephalosporins in milk and – of cattle by HPLC 188
– detmn. of selenium in blood, – and blood serum by electrothermal AAS, iron interference 290
– detmn. of spiroarsoranes in – by HPLC 296
– detmn. of sudexanox in – by HPLC 491
– detmn. of tianeptine in –, urine and tissues by HPLC 491
– detmn. of tiapride in – by HPLC 198
– detmn. of trelibet in – and urine by GC 295
– detmn. of triclabendazole and metabolites in – by HPLC 587
– detmn. of trimethoquinol in – by HPLC 199
– detmn. of vephylline in – by HPLC 492
– detmn. of vincamine in – by HPLC 492

Blood plasma
– extr. and detmn. of testosterone sulfate from – 58
– sepn. of α_1-acid glycoprotein from $\alpha_1$antitrypsin in – by HPLC using hydroxyapatite column 595
– sepn. of furosemide, phenylbutazone and oxiphen butazone in – by HPLC 587

Blood serum
– anal. of oleandomycin in – and urine by HPLC 295
– assay for γ-glutamyltranspeptidase activity in – by HPLC with electrochem. detection 494
– bipolar pulse conductometric detection of enzyme reactions in flow-injection systems, urea in – and urine 592
– detmn. of 3,5-dimethyl-4,6-diphenyl-tetrahydro-2H-1,3,5-thiadiazin-2-thion in – by HPLC 296
– detmn. of 5,5-dimethyl-2,4-oxazolidynedione in – by GC 296
– detmn. of 7-oxocholesterol in – by isotope dilution/MS 104
– detmn. of 10-carboxymethyl-9-acridanone in – by fluorimetry 296
– detmn. of β_2-microglobulin in – by immunoturbidimetry 195
– detmn. of aluminum in – by electrothermal AAS, recent developments 192
– detmn. of anti-inflammatory agents in – by LC 294
– detmn. of apolipoprotein A-I in – by zone immunoelectrophoresis 595
– detmn. of apolipoproteins in – by ELISA 486
– detmn. of biotinidase in – by fluorimetry 298
– detmn. of biotin in – by chemiluminescence energy transfer 196
– detmn. of bromazepam, clopenthixol and reserpine in – by LC/MS 493
– detmn. of carotenoids in – by gradient HPLC 196
– detmn. of creatinine in – by isotope dilution/MS 396
– detmn. of desferoxamine and ferrioxamine in – by HPLC 490
– detmn. of enprofylline and methylxanthines in – by HPLC 492
– detmn. of ethanol in – and saliva using a continuous-flow bioluminescent system 193
– detmn. of free polyunsaturated fatty acids in – by HPLC/fluorimetry 290
– detmn. of fructosamine in –, standardization problems 293
– detmn. of glucose in – by liquid scintillation 292
– detmn. of glucose in –, on-line clarification for turbid samples 592
– detmn. of glycerol, 1,2-propanediol and triglycerides in – by HPLC and post-column reactor 485
– detmn. of guanidines in – by ion-exchange HPLC 488
– detmn. of human placental phosphatase, alkaline in – with monoclonal antibody on paper disk 400
– detmn. of immunoglobulins in – by immunoturbidimetry 195
– detmn. of LDL-cholesterol in – by precipitation with dextran sulfate 293
– detmn. of lipoproteins in – by ultracentrifugation 196
– detmn. of lithium in – by electrodes, ion-selective 483
– detmn. of lithium in – by FIA with ion-selective electrode 395
– detmn. of methanol in – by headspace GC/SIM 395
– detmn. of mitochondrial aspartate aminotransferase in – by enzyme immunoassay 202
– detmn. of N-formimidoylthienamycin in – by HPLC 491

Blood serum
– detmn. of pentachlorophenol in – and urine by GC after pyrolytic ethylation 449
– detmn. of pyridoxal, pyridoxalphosphate and pyridoxic acid in – by derivative fluorescence spectrometry 595
– detmn. of retinol, α-tocopherol in – by HPLC with UV detection 487
– detmn. of selenium in blood, blood plasma and – by electrothermal AAS, iron interference 290
– detmn. of selenium in – by automated electrothermal AAS 290
– detmn. of thyroid hormones in – by HPLC, surfactant mediated gradient elution 487
– detmn. of tramadol in – by capillary GC with N-selective detection 197
– detmn. of triglycerides in – by enzymatic fluorometry 196
– detmn. of urea in – by enzymatic FIA 592
– detmn. of uric acid in – by reversed-phase HPLC 100
– detmn. of vitamin A and vitamin E in – by HPLC, with switched detectors 487
– detmn. of vitamin K in – by HPLC 488
– detmn. of yohimbine hydrochloride in – by HPLC 200
– sandwich enzyme immunoassay for human thyroid-stimulating hormone (hTSH) in – 99

Body fluids
– anal. of trace elements in biological materials using human – as reference materials 639
– detmn. of β-phenylethylamine in tissues and – by GC/ECD using pentafluorobenzenesulfonyl chloride for derivatization 485
– detmn. of benzylpenicillin and probenecid in – by HPLC 491
– microanal. of platinum and magnesium in – and brain tissue with cisplatinum 193
– profiling of – and tissues 98

Bones
– detmn. of strontium in – by AES 289

Boron
– detmn. of – as ion associate by extr. spectrophotometry 72
– detmn. of – by ICP-AES, generation of methyl borate 577
– detmn. of free – in boron nitride by indirect spectrophotometry 72
– detmn. of – in alloys and fly ashes by thermal neutron/γ-spectrometry 380
– detmn. of – in coal ashes and silicates by ICP-AES, acid dissolution 178
– detmn. of – in glass with azomethine H by spectrophotometry 383
– detmn. of – in magnesium oxide by charged particle activation anal. 584
– detmn. of – in methanolic solution by flame AES, influence of fluoride on the transport efficiency 168
– detmn. of – in steel, distillation of methylborate for ICP-AES 80
– detmn. of phosphorus and – traces in steel by ICP-AES 380

Boron materials
– detmn. of trace elements in – by epithermal neutron activation anal. 381

Boron nitride
– detmn. of free boron in – by indirect spectrophotometry 72

Bovine muscle
– standard reference materials for agrochemical analysis and food analysis: prep./charact. of – powder 627

Bovine teeth
– and meat powder as new biological standard reference materials 658

Bradykinin
– detmn. of – in saliva by HPLC 292

Brain
– anal. of – by chromatography, liquid, push-pull dialysis perfusion system for sampling 394
Brain tissue
– anal. of amino acids in – and urine by automated GC 291
– assay of phenothiazines in – by HPLC 295
– detmn. of catecholamines in – by HPLC with electrochem. detection 291
– microanal. of platinum and magnesium in body fluids and – with cisplatinum 193
Brass
– detmn. of zinc in bronzes and – by AAS 81
Brass corrosion products
– anal. of – in sea water and brackish water 584
Breath
– detmn. of ^{13}C-carbon dioxide in – by nondispersive IR heterodyne radiometry 590
– detmn. of ethanol in – by IR analyzer, interference by acetaldehyde 484
Brillant green
– detmn. of aliphatic ketones and esters with – by chromatography 78
Bromamine-B
– detmn. of vitamin B_6 by titrimetry using chloramine-T, bromamine-T and – 189
Bromamine-T
– detmn. of vitamin B_6 by titrimetry using chloramine-T, – and bromamine-B 189
Bromate
– anal. of – traces by potentiometric flow-injectional anal., Fe(II)/Fe(III)/Br-system 76
Bromazepam
– detmn. of –, clopenthixol and reserpine in blood serum by LC/MS 493
– detmn. of – in blood plasma by GC with ECD 198
Bromide
– detmn. of – by bromine generation and He-MIP 76
– detmn. of – in atmospheric aerosols 277
– detmn. of – in water by catalytic spectrophotometry 182
Bromine
– detmn. of chlorine, – and sulfur in organic compounds by potentiometric titration 173
– detmn. of fluorine, chlorine, –, iodine and sulfur in organic compounds by IR-ICP-AES 173
– detmn. of fuorine, chlorine and – in organic compounds by combustion tube method/ion chromatography 267
Bromochlorosalicylanilide
– detmn. of – and bamipine in pharmaceutical products by HPLC 391
4-Bromomethyl-6-nitro-methoxy coumarin
– detection of carboxylic acids in chromatography, liquid with – 467
2-(5-Bromo-2-pyridylazo)-5-diethylaminophenol
– detmn. of copper in soils with – by spectrophotometry 473
Bromosuccinimide, N-
– detmn. of antimony(III) in antiharzial compounds by titration with – 393
Bromothymol blue
– detmn. of propranolol with – by extr. spectrophotometry 190
Bronzes
– detmn. of beryllium in – with Chromazurol S by spectrophotometry 80
– detmn. of zinc in – and brass by AAS 81
Brown coal tar
– anal. of – by MC and GC/MS 83
Bucindolol
– detmn. of – in blood plasma by capillary GC/MS 295
Buddingtonite
– detmn. of ammonium in – by ion chromatography 179
Bufadienolide
– structural anal. of – and cardenolide type cardiac glycosides by FAB-MS 393
Buprenophine
– detmn. of – hydrochloride by flow injection anal. and chemiluminescence 590
Burmese lac
– anal. of long chain phenols, urushiol, laccol, thitsiol and phenylalkyl catechol compounds in – 274
Butizide
– detmn. of – and canrenone in pharmaceutical products by HPLC 95
Butylamines
– anal. of – in presence of butanol by GC 471
Butyl chloride
– detmn. of – and tetrachloromethane in polymerization catalysts production by GC 584
Butylphenol-formaldehyde resins
– sepn. of calixarene oligomers from p-tert-– by HPLC 472
Butyltin compounds
– speciation of n-– by spectrometry, atomic absorption with quartz furnace 274
Butylxanthate
– detmn. of palladium with n-– by spectrophotometry, after adsorption on naphthalene 464
– detmn. of selenium(IV) with potassium – by extr. spectrophotometry 75
Butyrophenones
– detmn. of – in pharmaceutical products by HPLC 287

C

Cacao butter
– detmn. of solid fat content in – by NMR 187
Cacotheline
– detmn. of mercury(I) with – by spectrophotometry 72
– detmn. of uranium(IV) with – by spectrophotometry 375
– detmn. of vanadium(IV) by titration, – as redox indicator 463
Cadmium
– anal. of lead and – in blood, quality control 647
– crystallographic study on – electrodes, ion-selective 72
– detmn. of – and lead in natural water by sorption-AAS 180
– detmn. of arsenic, selenium and – in marine biological tissues using STPF Zeeman AAS 388
– detmn. of copper, lead and – in high-purity zinc by metal furnace AAS 379
– detmn. of –, copper, lead and zinc in biological materials by AAS 395
– detmn. of copper, zinc and – in solid suspensions of biological materials by flame AAS and ICP-AES 345
– detmn. of – in biological reference materials by AAS/column preconc. 192
– detmn. of – in blood by flameless AAS 192
– detmn. of – in foods by electrothermal AAS, slurry technique 283
– detmn. of lead and – in biological materials by potentiometric stripping analysis 350
– detmn. of lead and – in metals, colored and alloys by AAS 81
– detmn. of lead and – in water by spectrometry, atomic absorption, flameless techniques 478
– detmn. of silver, copper, lead and – in metals, steel by graphite furnace AAS, coherent forward scattering 380
– detmn. of tellurium, zinc and – in indium antimonide crystals by voltammetry 82
– detmn. of – with N-phenyl-cinnamohydroxamic acid and PAR by extr. spectrophotometry 72
Cadmium
– detmn. of zinc, – and lead by spectrophotometry as Cu morpholine-4-carbodithioate complex 577
– detmn. of zinc and – with 2,2′-pyridyl bis (2-quinolylhydrazone by photometry or fluorimetry 462
– extr. of zinc, – and lead(II) from HCl media by Amberlite LA-2 hydrochloride 168
– induced proteins from marine organism as biological reference materials for environmental analysis 719
– preconc. and detmn. of – in mineral water by AAS 91
– solid-phase electrodes selective to lead and – ions 73
Cadmium citrate
– formation and stability of zinc citrate and – complexes in water 477
Cadmium compounds
– votalization studies of – by the combined quartz furnace and flame spectrometry, atomic absorption 177
Cadmium selenide
– detmn. of manganese(II) in – by direct non-destructive ESR spectrometry 382
Caffeine
– detmn. of acetylated – metabolites in urine by high-performance exclusion chromatography 200
Calcium
– detection of – by electrodes, ion-selective, new neutral carrier 573
– detmn. of – and magnesium in blood plasma electrolyte solution by ion chromatography 289
– detmn. of – in foods with ion-selective electrode 283
– detmn. of silicon, –, magnesium and phosphorus in urine by ICP-ES 395
– , electrodes, ion-selective based on noncyclic polyether diamides 573
Calcium fluoride
– detmn. of lanthanides in – by XRF anal. 177
Calcium hydroxide
– detmn. of – in cement by thermogravimetry, DTA 382
Calculation tables
– in chemical analysis 368
Calibration, single-point
– in flow potentiometric stripping analysis 573
Calixarene oligomers
– sepn. of – from p-tert-butylphenol-formaldehyde resins by HPLC 472
Calmodulin
– assay of –-dependent protein phosphatase with 4-methylumbelliferyl phosphat by spectrofluorimetry 494
Calorimetry, differential scanning
– , equivalent-circuit model for a heat-flux cell 69
Cane wax
– sepn. of – from filter press mud by extr. 389
Cannabinoids
– detmn. of – in blood plasma by GC, solid-supported derivatization reagents 297
Canrenone
– detmn. of butizide and – in pharmaceutical products by HPLC 95
Capillary columns
– making and manipulating – for chromatography, gas, book 159
– static coating method for glass – for chromatography, gas 263
Capsaicin
– detmn. of – in plant extracts by HPLC 481
Capsaicinoids
– isolation of natural – by reversed-phase low-pressure LC 481
Carbamate pesticides
– anal. of – by MS, NH_3 and CH_4 chemical ionization 285

Carbazole derivatives
– ident. of – in gas oil and environmental samples by GC/MS 470
Carbidopa
– detmn. of levodopa, methyldopa and – in pharmaceutical products by LC 391
Carbohydrates
– anal. of radioactively labeled – in proteoglycans by HPLC 195
– anal. of sulfate in complex – by ion chromatography 591
– chromatography, liquid/mass spectrometry for structural studies of – 79
– detmn. of electrically neutral – by HPLC with conductivity detection 269
– detmn. of reducing – in ion-exchange chromatography with metallic copper electrode 582
– detmn. of reducing – using ethylenediamine sulfate derivatization and HPLC with electrochem. detection 269
– sepn. of – on pyridinium polymer columns by HPLC 582
Carbohydrazide
– detmn. of – and ethoxycarbohydrazide by nitrometric titration 581
Carbon
– detmn. of – and hydrogen in antimonyorgano compounds, halogen interference 466
– detmn. of – in plant materials by combustion analysis 585
– detmn. of – in soils and sediments, review 89
– detmn. of – in steel by spectrometry, X-ray fluorescence, state of the technique 370
– detmn. of – in trichlorosilane by metastable transfer emission spectrometry 84
Carbon, activated
– preconc. of phosphate in water on Zr-loaded – 540
Carbon adsorbents
– sepn. of organic compounds by chromatography, liquid on – 455
Carbonate
– detmn. of – in apatites by gravimetry, loss of CO_2 after HCl-treatment 384
Carbonates
– detmn. of – in apatite by gravimetry 179
Carbon dioxide
– continuous conductometric sensor for – 385
^{13}C-carbon dioxide
– detmn. of – in breath by nondispersive IR heterodyne radiometry 590
Carbon dioxide partial pressure
– detmn. of – in blood by potentiometric sensor 288
Carbon fiber electrode
– , micro, as substrates for mercury films 573
Carbon monoxide
– detmn. of – in refinery emissions, comparison of methods 474
Carbonyl compounds
– detmn. of formaldehyde, lower – and alkalidene end groups in ng range 267
– detmn. of – in plants as hydrazides by HPLC/fluorimetry 90
– ident. of – by chromatography, HPLC, equation for calculation of retention 455
Carbopack B
– detmn. of organic compounds in air by GC, preconc. on – 179
Carboxcylic acids
– detmn. of – und amino acids by mass spectrometry, laser 78
Carboxyl acids
– sepn. of – by ion chromatography 173
Carboxylates
– detmn. of – and phosphonates in detergents by polarography 276
– sepn. of – as tert.-butyldimethylsilyl derivatives by GC 467
Carboxylic acids
– anal. of – in foods and beverages as p-nitrobenzyl esters by HPLC 283
– anal. of mono-, di- and tri— as isobutyl ester derivatives by GC 268
– detection of – in chromatography, liquid with 4-bromomethyl-6-nitro-methoxy coumarin 467
– detmn. of α-carbonyl or α-hydroxyl – with vanadium(V) reagent 79
– detmn. of – in GC, direct alkylation in aqueous samples 173
– enrichment of amino acids and – in environmental materials on copper-loaded silica/HPLC 388
– sepn. of – by temperature programmed LC 581
Carboxylic acids, aliphatic
– detmn. of pK_a values of some mono – 581
– sepn. of – by ion-exclusion chromatography with weak-acid eluent 467
Carboxylic acids, aromatic
– sepn. of –, nitrogen-containing by reversed-phase HPLC 174
10-Carboxymethyl-9-acridanone
– detmn. of – in blood serum by fluorimetry 296
Carboxymethyl resins
– isolation of peptides by HPLC on new – 485
Carboxyphenyl-β-naphthol
– detmn. of thorium in monozite with o— 473
Carcinogens
– destruction of – in laboratory wastes 479
Cardenolide
– structural anal. of bufadienolide and – type cardiac glycosides by FAB-MS 393
Cardiac glycosides
– detmn. of – in digitalis lanata by HPLC 200
– structural anal. of bufadienolide and cardenolide type – by FAB-MS 393
Carotenoids
– anal. of – by HPLC, comparison of column packings 487
– anal. of – by HPLC, decanol as mobile phase modifier 487
– detmn. of – in blood serum by gradient HPLC 196
– detmn. of – in red pepper by overpressured chromatography, thin-layer 481
– sepn. of – in plants by reversed-phase TLC 90
Catalase
– detmn. of – in soils by photometry 586
Catalases
– differentiation of – in mycobacteria by gel electrophoresis/staining 398
Catalysts
– detmn. of butyl chloride and tetrachloromethane in polymerization – production by GC 584
– detmn. of molybdenum in impregnated clay-supported – by AAS 178
– detmn. of palladium in – with glyoxal bis (4-phenyl-3-thiosemicarbazone) by spectrophotometry 583
– detmn. of rhenium in – by polarography 381
Catecholamines
– detmn. of – in blood plasma by HPLC 194
– detmn. of – in blood plasma by radioenzymatic assay, stability of standards 290
– detmn. of – in brain tissue by HPLC with electrochem. detection 291
– detmn. of – in urine by HPLC/precolumn dansylation 101
Cation exchangers
– macroporous – in chromatography, gas 458
Cations
– conductivity and UV detection of inorganic – in non-suppressed chromatography, ion 455
– titration of organic –, surfactants and alkaloids by amphimetry with electrochem. indication 123
Caustic
– detmn. of total sulfur in – by ion chromatography 82
Cell cultures
– detmn. of arsenic species in – by HPLC/ICP-AES 484
– ident. of macrocyclic trichothecenes in – by capillary GC/MS 94
Cell extracts
– detmn. of 2′-deoxycytidine-5′-triphosphate in – by radioimmunoassay 398
Cells
– assay of NAD in – by chromatography 201
– detmn. of 2-aminofluorene in tissues, animal, – by HPLC 100
– detmn. of 3-hydroxybenzo[a]-pyrene glucuronidation by –, fluorimetry 288
– detmn. of chloramphenicol acetyltransferase in – by nonchromatographic assay 489
– detmn. of nicotinamide mononucleotide pyrophosphorylase in – and tissues by enzymatic method 202
– detmn. of thiols in – by fluorimetry 193
Cellulose acetate
– adsorption of organic compounds on – in aqueous systems, chromatography, HPLC 372
Cellulose triphenylcarbamate
– chromatography, HPLC, – derivatives on silica gel as stationary phases 571
Cement
– detmn. of calcium hydroxide in – by thermogravimetry, DTA 382
– detmn. of thallium halides and lead halides in filter dusts of – plants 383
Cephalosporins
– detmn. of Ro-14-1761, – in milk and blood plasma of cattle by HPLC 188
Cephapirin
– detmn. of – in pharmaceutical products by HPLC 392
Ceramics
– study of special – and their sintering kinetics by high temperature dilatometer 383
Cereals
– detmn. of tryptophan in feeds and – by HPLC 389
Cerebrospinal fluids
– detmn. of trace metals in – by flow injection AAS 289
Cerium
– detmn. of – and gadolinium in lanthanide minerals, minerals by fluorimetry 384
– detmn. of barium, lanthanum, – and neodymium in lateritic materials by XRF and NAA 88
– sepn. of lanthanum, – and samarium from uranium, comparison of extr. and ion-exchange 72
Charge transfer complexation
– detmn. of corticosteroids by spectrophotometry, – 97
Chelating resins
– poly(dithiocarbamate) – decomposition procedures 85
– sepn. of trace metals by ion exchange on poly (dithiocarbamate) – 64
Chemical information
– analytical chemistry, methods as systems producing – by inference 317
Chemical processes
– study of – acoustic emission 369
Chemical sensing
– olfaction as a model for selective – 71
Chemiluminescence
– detmn. of ruthenium, new anal. properties of regenerative – of autooscillating reactions 171
– inhibition of lipoxygenase and myeloperoxidase, – by dipyridamole 596
– study of lucigenin –, improved applications 568

Chemometrics
– , vol. 82 in chemical analysis, book 564
Chicken tissues
– detmn. of zoalene in – by LC with electrochem. detection 188
Chiral phases
– 1-(α-naphthyl)ethylamine as basis for – for chromatography, HPLC 65
– for chromatography, HPLC, review 65
– sepn. of enantiomers by chromatography, liquid on – 371
Chloral hydrate
– anal. of chloroacetic acids and – in tap water by GC with ECD 183
Chloramine-T
– covalent binding of human serum albumin and ovalbumin by – 594
– detmn. of vitamin B_6 by titrimetry using –, bromamine-T and bromamine-B 189
Chloramphenicol
– detmn. of – in swine muscle meat by HPLC 187
Chloramphenicol acetyltransferase
– detmn. of – in cells by nonchromatographic assay 489
Chlordecone
– sepn. of – and metabolites by HPLC 286
Chloride
– continuous flow two-point titration system for – using ion-selective electrodes 377
– detmn. of – in aqueous solutions by dual column ion chromatography 465
– detmn. of – in circulating water and waste water by ionometry 280
– detmn. of – in milk by FIA with a dialyzer 480
– detmn. of nitrate and – in foods by ion chromatography 480
– detmn. of – traces in aqueous samples by reflectance spectrophotometry 465
Chlorine
– detmn. of –, bromine and sulfur in organic compounds by potentiometric titration 173
– detmn. of fluorine, –, bromine, iodine and sulfur in organic compounds by IR-ICP-AES 173
– detmn. of fuorine, – and bromine in organic compounds by combustion tube method/ion chromatography 267
– detmn. of – traces in polymers by coulometry 86
Chlorine dioxide
– detmn. of – in water by gas-diffusion flow injection anal. 476
Chloroacetic acids
– anal. of – and chloral hydrate in tap water by GC with ECD 183
1-(2-Chloroethyl)-3-(trans-4-methylcyclohexyl) -1-nitrosourea
– detmn. of – in blood plasma by GC 491
Chloroform
– detmn. of – and trihalomethanes in water by headspace GC 281
Chloro-paraffins
– detmn. of aromatic compounds, poly-chlorinated, total and – by GC 751
2-(p-Chlorophenyl)pyrazol[4,3-c]quinoline-3(5H) -one
– detmn. of – in blood plasma, urine and bile by HPLC 295
Chloroplasts
– sepn. of polar lipids of – by HPLC 104
Chloroquine
– anal. of – and desethylchloroquine in biological fluids by HPLC 491
Chlorpheniramine
– detmn. of codeine and – in blood plasma by capillary GC 492
Chlorpromazine
– detmn. of – and thioridazine by differential pulse voltammetry 96
Chlorpromazine
– detmn. of – hydrochloride in tablets, pharmaceutical products by MECA 191
Chlorthalidone
– anal. of – in blood by HPLC 299
Cholesterol
– detmn. of LDL– in blood serum by precipitation with dextran sulfate 293
– detmn. of –, plasmalogens and fatty acids in biological materials by TLC-FID on chromarods 595
– enzymatic detmn. of –, L-amino acids and linoleic acid with a novel redox indicator system 293
Cholesterol 7α-hydroxylase
– assay of – in liver microsomes by HPLC 398
Choline
– sepn. of aminoethanol, – and related compounds in plants by reversed-phase HPLC 184
Chondroitin sulfates
– anal. of hyaluronic acid and – in urine by HPLC 397
Chromadistillation
– , on-column injection of large samples 456
Chromatofocusing
– , displacement technique chromatophoresis 456
Chromatographic data sets
– quant. anal. of two-dimensional –/spectral data sets 166
Chromatographic peaks
– deconvolution of overlapping – 265
Chromatographic reactor
– chromatography, liquid, – for kinetic studies 572
Chromatographic selectivity
– optimization of –, book 565
Chromatography
– structure of bonded layer and on stationary phases for – 372
– , theoretical plate concept, mass transport in columns 260
Chromatography, dual-column
– chromatography, HPLC, peak ident. by – 571
Chromatography, gas
– , accuracy in modelling of retention indices 458
– , alkylammonium thiocyanates as stationary phases 68
– complex mixture anal. by two-dimensional capillary – 457
– , correlation between parameters 458
– , deactivation of fused-silica capillary columns with polymethylhydrosilanes 263
– detector, surface ionization for – 68
– detector, thermionic ionization for – 265
– , expanded multidimensional system 265
– , extrapolation and interpolation of retention times 458
– , FT-IR detection under a microscope 68
– (GSC), adsorption of aliphatic, alicyclic and aromatic hydrocarbons on poly(ethylvinyl-benzene-divinylbenzene) adsorbent 264
– , headspace anal. with cryogenic focusing 69
– , high temperature on-column injection 264
– , ident. of unknowns by retention tables 69
– , immobilized polysiloxane coated packings 264
– , injection techniques in capillary systems 264
– ionic adsorbents in capillary – 458
– , Joule-Thomson cooler for thermal focusing 265
– large diameter open tubular columns in – 457
– longitudinal spreading in – and chromatography, liquid 455
– macroporous cation exchangers in – 458
– making and manipulating capillary columns for –, book 159
– /mass spectrometry, improved library search with ^{13}C-NMR 69
– /mass spectrometry, linear working range 69
Chromatography, gas
– , maximum permissible sample size in capillary GC 457
– , metal polycomplexonates on polymers as sorbents 458
– methyl methacrylate-di(methacryloyloxy-methyl)naphthalene copolymer packing for – 263
– , micro-packed column with two segments of different particle size 263
– , MIP-AES for detection 265
– , modification of adsorbents by low-temperature plasma 458
– multidimensional – with macrobore WCOT and PLOT columns 457
– , new aluminum clad fused silica capillary columns 457
– , new polysiloxane stationary phases 264
– nitrogen as carrier gas in –/mass spectrometry 68
– on-line coupled chromatography, HPLC/– 67
– , on-line extractive workup 458
– on zeolites using moistened carrier gas 68
– , oxygen-selective detector 66
– , phosphine complexes of Cu(II) bonded on silica as stationary phase 264
– , prep. of glass capillary columns with immobilized Carbowax 20M 67
– , programmed and isothermal retention indices 458
– , properties of glass and quartz capillary columns 68
– quant. – with differential detector signal discrimination for unsufficient sepn. of impurity components 69
– , sample capacity of open tubular and capillary micro-packed columns 263
– , sample injection into open tubular columns 457
– , scheme of liquid phases selectivity 265
– selective – detectors, book 258
– sepn. of pharmaceutical substances by – with metallic supports 94
– , simple press-fit connectors for flexible tubing 264
– solid-state coulometric cell as detector for – 68
– , solvent effects in on-column injection 264
– , squalane-dinonyl phthalate mixtures at 303 K 458
– static coating method for glass capillary columns for – 263
– , stationary phase swelling in capillary columns 457
– thermal peak splitting in capillary – 457
– , two-dimensional GC/MS system 265
– , variable effluent splitter for simult. sniffing-MS-monitoring 69
– with detector, ion mobility, prediction of sepn. 265
– with detector, thermionic, use of carbon monoxide and water gas 68
Chromatography, gas, complexation
– sepn. of isomers by – 458
Chromatography, gas, pyrolysis
– anal. of kerogen by –, capillary column switching 469
– ident. of volatile organic compounds, chlorinated, organic compounds, oxygen-containing by – 173
Chromatography, gel
– , peak spreading correction 456
– sepn. of alcohols by –, selective packings 465
– with mixed eluents, pressure effects 373
Chromatography, HPLC
– 1-(α-naphthyl)ethylamine as basis for chiral phases for – 65
– adsorption of organic compounds on cellulose acetate in aqueous systems, – 372
– , alkylated and cross-linked PMLG packing 261
– anal. of drugs by –, 1 mm i. d. columns 286

Chromatography, HPLC
– , automated approaches to optimization 260
– , cellulose triphenylcarbamate derivatives on silica gel as stationary phases 571
– chemical modification of stationary phases for – 65
– chiral phases for –, review 65
– , continuous recording on reflection-absorbance FT-IR spectra 571
– , direct coupling with FAB-MS 262
– , effects of stationary phase polarity on retention 372
– , errors in prediction of retention 67
– , fused silica microparticulate packed column 65
– , gradient elution for large molecules 262
– ident. of carbonyl compounds by –, equation for calculation of retention 455
– , influence of eluent mixing and pumping systems 262
– , linear gradient generator 262
– , microbore columns with moving-wire FID 66
– , mobile phase optimization scheme 261
– , non-suppressed detmn. of cations and anions using differential conductivity detector 262
– on dynamically modified silica with cetyl-trimethylammonium bromide 65
– on-line coupled –/chromatography, gas 67
– on mercaptopropyl silica 571
– , optimization by isochronal anal. 66
– optimization of stepwise gradient elution in reversed-phase – 262
– , organo-magnesium modified Kel-F polymers as column packings 65
– , peak changes due to solvent interactions 66
– , peak ident. by chromatography, dual-column 571
– polyol bonded to silical gel as stationary phase for – 260
– , prediction of retention 66
– prediction of retention times in reversed-phase – from the chemical structure 455
– preformed gradient technique for microbore – 454
– , prep. of non-porous silica supports 260
– , retention mechanisms in cyanopropyl bonded phase 66
– , selective reversed phase packings 455
– sepn. of metals as tetraphenylporphyrin complexes by – 572
– sepn. of sterols by – on tomatine-bonded silica gel 293
– sepn. of transition metals by –, EDTA in mobile phase 572
– , six-volume rotary injection valve 64
– sub-ambient, temperature-regulated – 262
– , synthesis of cation-exchange stationary phases 261
– trace analysis by microbore – 454
– , triacetylcellulose as sorbent 372
– with on-line β-radiation detection 571
Chromatography, HPTLC
– circular – 266
Chromatography, hydrophobic interaction
– , influence of additives to the eluant 66
– , new resin-based hydrophilic support 65
Chromatography, ion
– 2,4-dihydroxybenzoic acid as eluent in single column – 261
– benzenepolycarboxylate buffers in – 454
– conductivity and UV detection of inorganic cations in non-suppressed – 455
– sepn. of anions, inorganic by – 464
– , single column technique 260
Chromatography, ion-exchange
– , effect of high pressures 454
– , prep. of supports of variable ligand density 371
– sepn. of trace metals by –, retention of organic ligands on anionic and nonanionic resins 261
Chromatography, ion-pair
– , effects of adsorption of organic ions 455
– trace analysis by – with injection generated gradient 64
Chromatography, ligand exchange
– sepn. of metals by – on tetracycline hydrochloride sorbed on alumina 454
Chromatography, liquid
– additive effects on surfactant adsorption and ionic solute retention in micellar – 372
– , alkyl-agarose as sorbent 372
– anal. of brain by –, push-pull dialysis perfusion system for sampling 394
– , chromatographic reactor for kinetic studies 572
– , column testing procedures 260
– detection of carboxylic acids in – with 4-bromo-methyl-6-nitro-methoxy coumarin 467
– detectors, book 258
– detmn. of amino acids and peptides by – with crown ethers mobile phases 101
– , detmn. of dead volume 261
– detmn. of. methyl tert.-butyl ether on silica gel by – 455
– digital simulation sample scheduling in a routine laboratory for – 167
– fractal surface dimension of silica in – 153
– , gradient elution under hydrostatic equilibrium 373
– laser-induced fluorescence detection for open-tubular – 571
– longitudinal spreading in chromatography, gas and – 455
– /mass spectrometry, direct liquid introduction interfaces 262
– /mass spectrometry, direct liquid introduction 456
– /mass spectrometry for structural studies of carbohydrates 79
– , mechanism in reversed-phase systems 261
– micellar –, adsorption isotherms of two surfactants, ionic on 5 stationary phases 372
– micellar –, retention study of solutes of various polarities 372
– , mobile phases containing tetraalkyl-ammonium hydroxides 261
– on-line detector, thermionic for narrow-bore – 454
– on-line detector, thermionic for narrow-bore reversed-phase – 454
– on mercuric-acetate-substituted phenylsilica phase 425
– , optimization by chemometric procedures 260
– , origin of system peaks 571
– parallel dual-electrode detection for – 262
– preconc., sepn. and detmn. of platinum metals by –, review 171
– , prediction of optimum isocratic conditions 261
– prediction of retention of hydroxyl aromatics in reversed-phase – 455
– , prep. of amphiphilic agarose derivatives 65
– , radiometric detection using effluent storage 571
– refractive index detection in microbore column – 454
– retention of benzene derivatives on liquid crystals in – 455
– , reversed micellar mobile phases 66
– , reversed-phase, matrix effect, interaction modes 261
– reversed-phase – with multisolvent mobile phase 66
– sepn. of alkali metals and alkaline earth metals by – on crown-ether modified columns 576
– sepn. of enantiomers by – on chiral phases 371
– sepn. of lead and transition metals by – on titanium antimonate 260
– , sepn. of metals on chelating stationary phases 572
Chromatography, liquid
– sepn. of organic compounds by – on carbon adsorbents 455
– , solid-phase extr. for simple off-line MS, NMR or FTIR 456
– , spectrophotometry, thermal lens for detection 66
– spectrophotometry, thermal lens for detection in microbore – 454
– , stationary phases with bonded nitrile groups 65
– , study of two states of C_{18}-bonded reversed-phase silicas 371
– , sub- and supercritical eluents 263
– testing of columns for – 570
– /thermospray mass spectrometry, ion formation 456
– whole column detection 66
Chromatography, paper
– , ATR-IR ident. 266
Chromatography, planar
– , Vol. 1, book 61
Chromatography, size exclusion
– anal. of xylansulfate by – 390
– , calibration for instrumental spreading 373
– high-performance aqueous – with diol-bonded porous glass 571
– sepn. of oligomers by – column packing 472
– , study of surface exclusion and geometrical exclusion 571
Chromatography, steric exclusion
– , equation for conc. effects 67
– , spreding calibration 373
Chromatography, supercritical fluid
– , binary fluid mobile phases 457
– computer enhanced spectroscopic sepn. of coeluted components in – 67
– , coupling with mass spectrometry 263
– , density-programmed 263
– , injection system, n-pentane as mobile phase 456
– , mobile phase and flow cells for FTIR detection 263
– , modification of a gas chromatograph 457
– , performance of capillary restrictors 456
– , polar modifiers in carbon dioxide mobile phase 67
– , polyacrylate-liquid crystalline stationary phase 263
– stationary phase effects in capillary – 67
– with FT-IR detection 67
Chromatography, thin-layer
– , automated multi runs 265
– background subtraction for fluorescence detection in – and adaptive Kalman filter 266
– , continuous development 265
– detmn. of carotenoids in red pepper by overpressured – 481
– improved – sepn. of C_1–C_{18} acryl acid alkyl esters 266
– , quant. evaluations, handbook 159
– resolution of enantiomers via ligand exchange – 266
– sepn. of metals by –, formic acid containing solvents 266
Chromatophoresis
– chromatofocusing, displacement technique – 456
Chromazurol S
– detmn. of beryllium in bronzes with – by spectrophotometry 80
Chromium
– detmn. of – in steel with 3-hydroxyflavone by fluorimetry 80
– detmn. of manganese, – and nickel by AAS, interference by polymeric formations 463
– detmn. of molybdenum, – and vanadium by ion-pair HPLC based on precolumn chelation with PAR 579

Chromium
– flow-injection configurations for – speciation with a single spectrophotometric detector 578
Chromium(III)
– detmn. of – with phenanthrenequinone monoxime by spectrophotometry, molten naphthalene 579
– sepn. of –, cobalt(III) and aluminum as acetylacetonates by GC 463
Chromium(VI)
– detmn. of copper, nickel, zinc and – in waste water by ion-exchange methods 386
– detmn. of – traces by LC/AAS with on-line preconcentration 170
Chronocoulometry
– anal. of electrode reactions by – 459
Cinnamic acid
– detmn. of – in blood plasma by capillary tube electrophoresis 593
Circular dichroism
– anal. of proteins by – spectra 103
Cisplatinum
– microanal. of platinum and magnesium in body fluids and brain tissue with – 193
Citrinin
– detmn. of aflatoxin B_1, –, ochratoxin A, metabolites of mycotoxins in urine by HPLC 493
– detmn. of – and ochratoxin A in wheat and barley by HPLC 91
Citrus fruits
– detmn. of thiabendazole in – by polarography 283
Citrus leaves
– detmn. of abscisic acid in – by reversed-phase HPLC 90
Clavulanate
– detmn. of – in blood plasma and urine by HPLC/fluorimetry 199
Clay minerals
– detmn. of surfactants, cationic in – 155
Clay supernatant
– detmn. of N-polyethoxylated alkyl amide in – by UV spectrometry, correction for turbid systems 85
Clinical analysis
– , quality control, review 288
– with prepared reagent carriers 288
Clofibric acid
– detmn. of clofibroyl coenzyme A and – in liver by HPLC 492
Clofibroyl coenzyme A
– detmn. of – and clofibric acid in liver by HPLC 492
Clomiphene
– photolysis to assays based on anal. of the derived phenanthrenes 589
Clonidine
– detmn. of – hydrochloride by spectrophotometry or fluorimetry 287
– detmn. of – hydrochloride in pharmaceutical products by HPLC 587
Clopamide
– detmn. of xipamide and – in pharmaceutical products by HPLC 96
Clopenthixol
– detmn. of bromazepam, – and reserpine in blood serum by LC/MS 493
Clotiazepam
– polarographic study of – 589
CMP-N-acetylneuraminic acid
– sepn. of – and cytidine nucleotides by HPLC 298
Coal ashes
– anal. of – by X-ray backscattering method 469
– detmn. of boron in – and silicates by ICP-AES, acid dissolution 178
Coal flue gas condensate
– ident. of hydrocarbons, polycyclic aromatic in – 401
Coal liquefaction products
– detmn. of amines, prim. aromatic and nitrogen compounds, basic in – by GC/MS 272
– sepn. of nitrogen bases and phenol compounds in – by GC/UV spectrometry 469
Coals
– detmn. of iron in process samples from chemical cleaning of – by spectrophotometry 83
– investigation of hydrocarbon constituents of young sub-bituminous – by GC/MS 272
Coal tar pitch
– anal. of –, coke tar pitch by MS 469
Cobalt
– anal. of binary and ternary mixtures of –, nickel and copper by kinetic methods based on ligand substitution 378
– detmn. of – by catalytic anal., autoxidation of o-hydroxyphenylthiourea 171
– detmn. of – by catalytic anal., pyrogallol red-H_2O_2 reaction 170
– detmn. of copper and – with new hydrazone derivative by spectrophotometry 461
– detmn. of – in steel by spectrophotometry after extr. with microcrystalline benzophenone 378
– detmn. of – mit β-mercapto-propanoic acid anilide by extr. spectrophotometry 579
– detmn. of – (ppt) by extr. and spectrometry, photoacoustic 579
– detmn. of – with alkaline permanganate by potentiometric titration 580
– detmn. of – with bisacetylmonoxime 2-pyridyl-hydrazone by spectrophotometry 378
– detmn. of – with isophthaldihydroxamic acid by spectrophotometry 579
– detmn. (simult.) of –, nickel and iron in polymeric materials by a.c. voltammetry 86
– sepn. of molybdenum, aluminum, – and copper as oxinates by reversed-phase HPLC 170
Cobalt(II)
– detmn. of nickel(II) and – with sodium dodecyl-xanthate by spectrophotometry 464
Cobalt(III)
– sepn. of chromium(III), – and aluminum as acetylacetonates by GC 463
Cobalt binder phase
– anal. of – in metals 176
Cobamides
– anal. of – from bacterial systems by HPLC 197
Cocaine
– anal. of illicit – by HPLC with electrochem. detection 394
Codeine
– anal. of – by reversed-phase HPLC 200
– detmn. of – and chlorpheniramine in blood plasma by capillary GC 492
– detmn. of propyphenazone, coffeine and – by reversed-phase HPLC 190
Codeine phosphate
– anal. of acetaminophen, – and sodium benzoate in pharmaceutical products by HPLC 95
Coffee
– detmn. of formaldehyde in – by GC, as thiazolidine derivative 93
Coffeine
– detmn. of propyphenazone, – and codeine by reversed-phase HPLC 190
Collagen
– detmn. of pyridinoline and 2′-deoxy-pyridinoline in tissues, – by amino acid anal. 201
– sepn. of amino acids of – hydrolysates by HPLC 396
Collagenase
– assay for – of vertebrates by TLC/fluorimetry 494
Colloids
– detmn. of heavy metals in inorganic – in water 278
Columbite-tantalite
– detmn. of elements in – by X-ray fluorescence spectrometry 178
Column packing materials
– mass spectrometry, laser ionization, of chromatography – 570
Combustion analysis
– detmn. of carbon in plant materials by – 585
Competitive protein binding
– immobilized antibodies in saturation analysis, radioimmunoassay and – 192
Complex formation
– fluorescence quenching for measuring – between metal ions and aromatic amino acids 70
– in aqueous solution, computerized calculations 69
Complexing agents
– detmn. of strong – in water by extr. 387
Complexometric titrations
– of metals using a lead electrodes, ion-selective 164
Computation
– in chemistry, book 453
Computer
– in chemistry, book 368
Conductors, solid
– anal. of metals or – by ICP-MS 582
Coomassie brillant blue R
– quant. of proteins with – after gel electro-phoresis 103
Cooperative tests
– influence of outliers of comparison in – 247
Copolymers
– study of –, adsorbents, structure and sorption properties 261
Copper
– anal. of binary and ternary mixtures of cobalt, nickel and – by kinetic methods based on ligand substitution 378
– chalcogenide glass electrodes, ion-selective for – 460
– detection of trace –, iron and manganese in cotton by TLC 275
– detmn. of – and cobalt with new hydrazone derivative by spectrophotometry 461
– detmn. of – and zinc in hair by ICP-AES spectrometry, direct sample insertion 192
– detmn. of – and zinc in tissues, animal by AAS after acid extraction 192
– detmn. of cadmium, –, lead and zinc in biological materials by AAS 395
– detmn. of – in infant formulas by L'vov platform graphite furnace AAS 92
– detmn. of – in soils with 2-(5-bromo-2-pyridyl-azo)-5-diethylaminophenol by spectrophotometry 473
– detmn. of – in wine by potentiometric stripping anal. 479
– detmn. of –, lead and cadmium in high-purity zinc by metal furnace AAS 379
– detmn. of –, nickel and palladium by flow-injection anal. as EDTA complexes 71
– detmn. of –, nickel, zinc and chromium(VI) in waste water by ion-exchange methods 386
– detmn. of silver, –, lead and cadmium in metals, steel by graphite furnace AAS, coherent forward scattering 380
– detmn. of trace – by spectrophotometry, preconc. with thiuram disulfide 577
– detmn. of – traces in water by catalytic anal. as nitrite 477
– detmn. of – with 2-hydroxy-1-naphthaldoxime by gravimetry 461
– detmn. of – with anisaldehyde-4-phenyl-3-thio-semicarbazone by extr. spectrophotometry 168
– detmn. of – with EDTA and NTA by derivative spectrophotometry 461
– detmn. of – with salicylaldoxime by anodic-stripping voltammetry 374

Copper
– detmn. of –, zinc and cadmium in solid suspensions of biological materials by flame AAS and ICP-AES 345
– ion-exchange for detmn. of biologically active – in sea water 279
– sepn. of molybdenum, aluminum, cobalt and – as oxinates by reversed-phase HPLC 170
Copper(I)
– detmn. of – in hair by AAS, extr. with naphthalene as ion associate 576
– effects of vacuum on tetrakis-isocyanide complexes of silver(I) and –, implications for secondary ion mass spectrometry 570
Copper(II)
– complexes of – with N-methyldiethanolamine, 1,4-bis(2-hydroxypropyl)-2-methylpiperazine and 2-amino-2-methyl-1-propanol 167
– detmn. of – by potentiometric titration with benzylamino-N,N-di(methanephosphonic)acid 71
– detmn. of – in tissue, animal by chemi-luminescence 192
– detmn. of – using piezoelectric crystals coated with poly(vinylpyridines) 71
– detmn. of – with 2-(α-pyridyl)thioquinalidin-amide by spectrophotometry 374
– sepn. of – by extr. with versatic 911 577
– spectrometry, photoacoustic, detmn. of – and iron(III) complexed on modified silica gel 569
Copper alloys
– anal. of – by spectrometry, X-ray fluorescence, empirical correction method 176
Copper metallurgy materials
– detmn. of total sulfur in – by combustion in oxygen-bomb calorimeter 584
Corn oil
– detmn. of phosphorus in soy oil and – by nephelometry 187
Corn products
– detmn. of sulfite in –, comparison of methods 92
Correlation
– computer-based system for – of molecular structures with mass spectral data 576
Corrosion inhibitors
– detmn. of – in jet fuels by gel permeation chromatography 470
Corrosion products
– anal. of – of aluminum brass in sea water, comparison between methods 177
Corticosteroids
– detmn. of – by spectrophotometry, charge transfer complexation 97
– sepn. of – by HPLC on dynamically modified silica 486
Cortisone
– detmn. of prednisolone, prednisone, – and hydrocortisone in blood plasma by solid-phase and liquid-liquid extr. 294
Cosmetics
– detmn. of aminobenzoic acid, p- monoglyceryl-p-amino-benzoate and benzocaine in – by HPLC 394
– detmn. of preservatives in – by ion-pair reversed-phase HPLC 98
– ident. of food colors in pharmaceutical products and – by adsorptive stripping voltammetry 590
Cotinine
– detmn. of nicotine and – in blood plasma by GC 493
Cotton
– detection of trace copper, iron and manganese in – by TLC 275
Coulometric titration
– detmn. of silver error in the – of acids in various media 164
Cranberry juice
– anal. of – by LC and UV spectra 282
Creams
– detmn. of hydroquinone in skin-toning – by HPLC 98
Creatine kinase
– detmn. of – with immobilized firefly luciferase 596
Creatinine
– detmn. of – in blood serum by isotope dilution/MS 396
– detmn. of – with enzyme sensor 102
Cresolphthalein complexone
– sepn. of alkaline earth metals with o– by HPLC 168
Cresol purple
– study of phenol red and m– by ^{13}C-NMR spectrometry 575
Cresols
– detmn. of – by iodometry 582
– detmn. of – in urine by HPLC 194
Crops
– detmn. of cyhexatin in – by GC with flame photometric detector 90
– transfer of trace elements and nutrients from sewage sludges amended soils to – 634
Crown ethers
– detmn. of amino acids and peptides by chromatography, liquid with – mobile phases 101
– sepn. of technetium from uranium by extr. with – and cryptands 176
– structure/selectivity relationships in the liquid-liquid extr. of alkali metals and alkaline earth metals by anionic – 374
Crude oils
– anal. of methylbiphenyls, ethylbiphenyls and dimethylbiphenyls in – by LC and GC 272
– detmn. of hydrogen isotope ratio in hydrocarbons of – by pyrolysis method 469
– detmn. of pristane, phytane and carbon preference index in – by GC 272
– detmn. of Reid vapor pressure for stabilized – by GC 272
– detmn. of water in – by microwave absorption 470
– ident. of adamantanes in some Iraqi – by GC 272
Cryptands
– sepn. of technetium from uranium by extr. with crown ethers and – 176
α-Crystallin
– anal. of – by steric exclusion LC in urea 486
Cyanide
– detmn. of – by FIA/AAS method 76
– detmn. of – by FIA/chemiluminescence 77
– detmn. of – in environmental samples and blood, review 464
– detmn. of – in waste water by chrono-potentiometry 182
– detmn. of ng amounts of – by pneumato-potentiometry 76
– detmn. of – with colloidal silver by titration 465
Cyanogen
– detmn. of hydrogen cyanide and – in air by automated GC 474
Cyclodextrines
– sepn. of optical isomers of D,L-norgestrel on – by HPLC 271
Cyclohexane
– sepn. of halogenated derivatives of –, benzene and anisole by GC 270
Cyclomaltodextrin glucanotransferase
– detmn. of – by HPLC/fluorimetry 299
Cyclothiazide
– sepn. of 4 stereoisomers of – by HPLC 287
Cyhexatin
– detmn. of – in crops by GC with flame photometric detector 90
Cyproheptadine
– detmn. of – in blood plasma and urine by HPLC 199
Cysteic acid
– detmn. of – in tissues, animal by GC 101
Cysteine
– detmn. of –, glutathione and ascorbic acid by simult. spectrophotometry after iodine-azide reaction 268
Cysteine sulfinic acid
– detmn. of – in tissues, animal by GC 101
Cytidine nucleotides
– sepn. of CMP-N-acetylneuraminic acid and – by HPLC 298

D

Danazol
– detmn. of – in pharmaceutical products by HPLC 393
DCTA
– detmn. of traces of EDTA, EGTA and – by adsorptive accumulation followed by cathodic stripping 471
Dead volume
– chromatography, liquid, detmn. of – 261
Decanol
– anal. of carotenoids by HPLC, – as mobile phase modifier 487
Decatenation assay
– detmn. of topoisomerases by – 596
Decomposition method
– for anal. of silicon nitride and silicon carbide by XRF 232
Densitometry
– , model studies of a light-scattering system 568
Denzimol
– detmn. of – in biological materials by GC and HPLC 198
Deoxyadenosine
– detmn. of 1-methyladenine, –, deoxy-adenosine-5′-monophosphate and adenine dinucleotides by DPPA 146
Deoxyadenosine-5′-monophosphate
– detmn. of 1-methyladenine, deoxyadenosine, – and adenine dinucleotides by DPPA 146
2′-Deoxycytidine-5′-triphosphate
– detmn. of – in cell extracts by radioimmuno-assay 398
Deoxynivalenol
– detmn. of – by HPLC with electrochem. detection 186
– detmn. of – in grain products by TLC 185
– quant. of – and metabolites in bovine urine and feces by GC with ECD 587
2′-Deoxypyridinoline
– detmn. of pyridinoline and – in tissues, collagen by amino acid anal. 201
Desferoxamine
– detmn. of – and ferrioxamine in blood serum by HPLC 490
Desferrioxamine
– detmn. of – in blood plasma and urine by AAS after extr. 490
Desmosine
– detmn. of –, isodesmosine, 5-hydroxylysine, tryptophan, lysinoalanine and amino sugars in proteins and tissues by amino acid anal. 195
Detection limits
– in real samples using spectrometry, atomic absorption, electrothermal 70
Detector, atomic fluorescence
– behavior of some dialkyl- and trialkyl-lead-organo compounds using a non-dispersive – 77
Detector, ion mobility
– chromatography, gas with –, prediction of sepn. 265
Detector, pneumatoamperometric
– detection of nitrite in flow-injection analysis by – 75
Detectors
– chromatography, liquid –, book 258
– selective chromatography, gas –, book 258

Detector, surface ionization
– for chromatography, gas 68
Detector, thermionic
– chromatography, gas with –, use of carbon monoxide and water gas 68
– on-line – for narrow-bore chromatography, liquid 454
– on-line – for narrow-bore reversed-phase chromatography, liquid 454
Detector, thermionic ionization
– for chromatography, gas 265
Detergents
– detmn. of carboxylates and phosphonates in – by polarography 276
Deuterium
– detmn. of – in water by gas-phase IR spectrometry 175
Deuterium oxide
– detmn. of – in biological materials by IR spectrometry 590
Dexamethasone
– detmn. of – in blood plasma by HPLC 199
Dextransucrase
– detection of – and levansucrase in gel electrophoresis, staining artefacts 596
2,6-Diacetylpyridine bis(benzoylhydrazone)
– extr. and detmn. of uranium(VI) with – 578
DIAGRAM
– , a drawing program for logarithmic concentration/pH plots 166
Dialkylaminobenzene
– thermal analysis of amide derivatives of N,N–– 277
Dialkyldimethylammonium compounds
– anal. of alkyltrimethylammonium compounds and – by GC 276
Dialkylformamidines
– sepn. of N^1,N^1–– by GC, prediction of retention indices 80
O,O-Dialkyl-S-methylphosphorodithioate
– ident. of – in fish by GC/MS 286
Diamantane carboxylic acids
– HPLC of methyl esters of – and adamantane carboxylic acids 272
Diamidines, trypanocidal
– detmn. of – in biological materials by TLC 297
Cis-1,2-diaminocyclohexane
– sepn. of platinum complexes with – by HPLC 392
Diaminodiphenylmethane derivatives
– trace anal. of selected benzidine and – in urine by LC 297
4,4′-Diaminodiphenylsulfone
– detmn. of – in milk by LC, automated sample treatment 480
Diantipyrylmethane
– detmn. of manganese in alloys with – by spectrophotometry 81
Diatiazem
– sepn. of – isomers by HPLC, new derivatization reagent 175
Dibenzo-14-crown-4
– synthesis and extr. behavior of – derivatives of acetic acid and hexanoic acid 574
Dibenzo-p-dioxins, polychlorinated
– detmn. of – by GC with MIP detection 184
– detmn. of dibenzofurans, polychlorinated and – by two-dimensional GC/MS 282
Dibenzofurans, polychlorinated
– detmn. of – and dibenzo-p-dioxins, polychlorinated by two-dimensional GC/MS 282
1,2-Dibromoethane
– detmn. of – in aqueous solutions by polarography 465
Dibutanoylmorphine
– detmn. of morphine, monobutanoylmorphine and – in biological materials by GC/MS 493
Dibutylphosphoric acid
– detmn. of – in tributylphosphate by TLC 274
Dicarboxylic acids
– detmn. of – in polymers by GC/MS 275
Diclorpyr
– detmn. of – in water by GC 286
Dicofol
– detmn. of –, fenson and tetradifon in fish and water by GC 286
Dicyanamide
– detmn. of – in plants by photometry 389
Dicyclohexano-18-crown-6
– sepn. of uranium and thorium by extr. with – 578
Didemnin B
– detmn. of – in biological fluids by HPLC 199
Diesel exhaust
– ident. of hydrocarbons, polycyclic aromatic in – and air by GC/MS 183
Diesel particulates
– ident. of naphtho[8.1.2 abc] coronene in – by reversed-phase 183
Diet foods
– detmn. of inorganic elements and organic nutrients in mixed – reference materials 702
– quality control program for anal. of trace elements in foods and – by FOA European cooperation 684
Diethyl dithiophosphate
– detmn. of flotation collectors ethylxanthate and – by cathodic stripping voltammetry 471
– detmn. of – in flotation liquors 274
Diethylene glycol
– detmn. of – in wine by ^{13}C-NMR 284
– detmn. of – in wine by capillary GC with FID 479
– detmn. of – in wine by two-dimensional GC 284
Di(2-ethylhexyl)phosphoric acid
– sepn. of tantalum from niobium by extr. with – 376
– sepn. of uranium(VI) by extr. with – 577
Diethylstilbestrol
– detmn. of – in blood plasma by HPLC 200
– detmn. of – in urine by HPLC/capillary GC 294
Diethylzinc
– detmn. of haloidalkyls and ethers in – by GC with prior hydrolysis of the matrix 84
Diffusion equations
– validity of – in solution 70
Digestion
– detmn. of elements and trace elements in silicate materials, soils, sediments, sludge after HF–– in a closed system 135
Digitalis lanata
– detmn. of cardiac glycosides in – by HPLC 200
Digital simulation
– sample scheduling in a routine laboratory for chromatography, liquid 167
Dihydroartemisinine
– anal. of – α- and β-isomers by reversed-phase HPLC 393
3,4-Dihydro-6,7-dimethoxy-4-methyl-3-oxo-quinoxaline-2-carbonyl chloride
– for derivatization of alcohols in HPLC/fluorimetry 266
Dihydrofolate
– detmn. of folic acid and – by radioenzymatic anal. 487
Dihydropyridines
– anal. of –, nifedipine in pharmaceutical products and blood plasma by HPLC with electrochem. detection 190
2,4-Dihydroxybenzoic acid
– as eluent in single column chromatography, ion 261
Dihydroxybenzoic acids
– sepn. of – and trihydroxybenzoic acids by two-dimensional TLC 468
Dihydroxyeicosatetraneoic acids
– anal. of – in biological fluids by GC/MS 200
Diltiazem
– detmn. of – by adsorptive stripping voltammetry 588
Dilution flask
– simple – for flame spectrometry, atomic 567
Dimer acid
– anal. of – by HPLC/FID 471
Dimethoxycoumarins
– anal. of monodemethylated metabolites of 6,7- and 7,8–– isomers in pharmaceutical products by GC/MS/SIM 393
Dimethyl acetals
– anal. of fatty acid methyl esters and – in biological materials by capillary GC 104
Dimethylacetamidines
– effect of stationary phase on retention indices of dimethylformamidines, – and amines, prim. 268
Dimethylarsinate
– liquid-liquid extraction of arsenic(III), arsenic (V), methylarsonate and – 382
Dimethylbiphenyls
– anal. of methylbiphenyls, ethylbiphenyls and – in crude oils by LC and GC 272
Dimethylcyclopropanes
– sepn. of gem–– on different stationary phases by HPLC 468
3,5-Dimethyl-4,6-diphenyl-tetrahydro-2H-1,3,5-thiadiazin-2-thion
– detmn. of – in blood serum by HPLC 296
Dimethyldithiocarbamate
– detmn. of – residues in agricultural products by HPLC 91
Dimethyl ether
– detmn. of – in a mixtures by GC 273
Dimethyl formamide
– detmn. of hydrocarbons, aromatic as impurities in – by luminescence 84
Dimethylformamidines
– effect of stationary phase on retention indices of –, dimethylacetamidines and amines, prim. 268
1,9-Dimethylmethylene blue
– detmn. of bacterial endotoxins with – 493
5,5-Dimethyl-2,4-oxazolidynedione
– detmn. of – in blood serum by GC 296
Dimethyl-p-phenylenediamine
– detmn. of sulfide by N,N–– immobilized on cation exchanger in optical sensor 465
Dimethylphosphatidates
– sepn. of – of alkylacyl glycerophosphocholine in leucocytes by HPLC 398
Dimethyl sulfate
– detmn. of – in working place atmospheres 517
Dimethyl sulfoxide
– detmn. of leadorgano compounds by differential pulse polarography in – 466
3,5-Dinitrobenzoic acid
– sepn. of C_1–C_{12} n-alkyl esters of benzoic acid, 4-nitrobenzoic acid and – by capillary GC 79
3,5-Dinitrosalicylic acid
– detmn. of thiourea with – by electrodes, ion-selective 581
Dinucleotides
– study of – by FAB combined with tandem MS 596
Diode lasers, tunable
– spectrometry, IR, baseline correction method for second-harmonic detection with – 162
Diols
– enantiomer resolution of – by GC, derivatization by N-trifluoroacetylglycine 78
– sepn. of 1,2- and 1,3–– as cyclic ferrocene-boronate derivatives by GC 268
Dioxins
– detection of – by GC with mass-selective detector 282
Dioxopiperidine-phthalimidine
– sepn. of enantiomers of – by LC and HPLC 150

Diphenylcarbazide
– detmn. of sulfur in organic compounds with 1, 5– by spectrophotometry 466
Dipyridamole
– inhibition of lipoxygenase and myeloperoxidase, chemiluminescence by – 596
Di-2-pyridyl ketone benzoylhydrazone
– detmn. of iron(II) with – by extr. spectrophotometry 579
2,2′-Dipyridyl-2-pyridylhydrazone
– detmn. of lanthanum with – by spectrophotometry 374
2,2′-Diquinoxalyl
– detmn. of antimony(V) and halogenates with – by spectrophotometry 575
Disaccharides
– capillary GC of reducing – with nitrogen-selective detection 174
– chromatography of monosaccharides and –, review 174
Dispersion
– axial – in coiled reactor tubes 165
– evaluation of – in a flow injection system by electrochem. detector/personal computer 214
Dissociation constants
– effect of tensides, cationic on the – of PAR 165
Disulfides
– anal. of biological thiols in – and thioesters 193
Diterpenoid alkaloids
– sepn. of – in plant extracts by centrifugal chromatography 586
Dithiocarbamate
– detmn. of selenium traces in biological materials by NAA after – extr. 484
Dithioglycolic acid
– detmn. of thioglycolic acid and – in mineral flotation systems by molecular emission cavity analysis 179
Dithionite
– detmn. of – in standard solutions by anaerobic fluorescence titration with flavin mononucleotide 165
DNA
– detmn. of antiviral nucleoside analogs in – by HPLC 596
– detmn. of – by voltammetry 202
DNA fragments
– sepn. of oligonucleotides and – by mixed-mode hydrophobic ion-exchange and HPLC 399
Docosahexaenoic acid
– HPLC/thermospray MS of eicosanoids and novel oxygenated metabolites of – 397
Dodecylxanthate
– detmn. of nickel(II) and cobalt(II) with sodium – by spectrophotometry 464
Dolichyl phosphates
– detmn. of – in tissues by HPLC 196
Dolomites
– detmn. of iron in – by radioisotope X-ray fluorescence 179
Dopamine
– detmn. of – and ascorbic acid by a.c. voltammetry 194
– detmn. of – by voltammetry, electrocatalytic and nucleophilic reactions 194
Dot-blot assay
– for heparin-binding proteins 594
Doxapram
– detmn. of – and 2-ketodoxapram in blood plasma by GC 198
Dozapinol
– detmn. of – in pharmaceutical products by HPLC 588
Drug antibodies
– detmn. of – by homogeneous enzyme immunoassay 191
Drug-protein binding
– automated flow-injection serial dynamic dialysis technique for – studies 490
Drug release
– testing of – in pharmaceutical products by robotic system 587
Drugs
– anal. of – by chromatography, HPLC, 1 mm i. d. columns 286
– mass spectrometry and GC data of –, poisons and their metabolites, book 565
Dust
– detmn. of – in air by gravimetry 475
Dye intermediates
– detmn. of – in oxidative hair dyes by capillary GC 473
Dyes
– anal. of organic – by secondary ion MS 276
– sepn. of indicators, metallochromic and water-soluble – by electrophoresis 70

E

Ecdysteroids
– microanal. of prostaglandins and – in insects by HPLC/fluorimetry 293
EDTA
– detmn. of copper with – and NTA by derivative spectrophotometry 461
– detmn. of traces of –, EGTA and DCTA by adsorptive accumulation followed by cathodic stripping 471
– sepn. of transition metals by chromatography, HPLC, – in mobile phase 572
Efrotomycin
– detmn. of – in feeds by HPLC 586
EGTA
– detmn. of traces of EDTA, – and DCTA by adsorptive accumulation followed by cathodic stripping 471
Eicosanoids
– HPLC/thermospray MS of – and novel oxygenated metabolites of docosahexaenoic acid 397
Electrochemical analysis
– , book 365
Electrochemical data
– regression analysis of – 373
Electrochemical instrument
– performance of a general-purpose – aided by a stand-alone micro-computer in trace analysis 461
Electrochemistry
– thermospray, mass spectrometry in – 163
Electrochemistry, thin-layer
– , full edge current flow cell 572
Electrode, ion exchanger
– new selenocyanate selective – based on Urushi matrix-membrane 362
Electrode reactions
– anal. of – by chronocoulometry 459
Electrodes
– hydrodynamic modulation voltammetry with a microcylinder electrode, – 459
– potentiometric and amperometric tissue-based – for oxalate 581
– solid-phase – selective to lead and cadmium ions 73
Electrodes, carbon-ring
– with 1 µm tip diameter 459
Electrodes, glassy carbon
– enhanced stability of – 459
– oxygen reduction at – 459
– preparation of – 573
Electrodes, ion-selective
– all-solid-state PVC membrane electrodes 460
– calcium, – based on noncyclic polyether diamides 573
– chalcogenide glass – for copper 460
– characteristic behavior of neutral carriers in lithium – 164
– complexometric titrations of metals using a lead – 164
– crystallographic study on cadmium – 72
Electrodes, ion-selective
– detection of calcium by –, new neutral carrier 573
– detmn. of fluoride by flow injection analysis using – 377
– detmn. of fluoride by – in non-linear response region 76
– detmn. of gold(III) using coated-wire – 374
– detmn. of lead by –, macrocyclic reagents as membrane-active components 573
– detmn. of lithium in blood serum by – 483
– detmn. of mercury(II) and silver with –, dithia crown ethers in the membrane 573
– detmn. of nickel by –, dimethylglyoxime paste electrode 378
– detmn. of tantalum using hexafluorotantalate – 74
– detmn. of tartaric acid with periodate – 467
– detmn. of thiourea with 3,5-dinitrosalicylic acid by – 581
– neutral carriers for lithium – 460
– pH electrodes, –, new neutral carriers 573
– prep. of –, AgI-based membrane for iodide and mercury(II) 573
– prep. of –, selenocyanate ion-sensitive field effect transistor 460
– selectivity of sulfide – 75
– use of – in industrial flow analysis 460
Electrodes, liquid membrane
– membrane-dialyzer injection loop for enhancing the selectivity of anion-responsive – 574
Electrolytical bathes
– detmn. of fluorine in – by ion-selective electrodes 383
Electronic materials
– detmn. of trace elements in – by NAA 382
Electron temperatur
– distribution of – in spectrometry, ICP, argon 59
Electrophoresis
– detmn. of cinnamic acid in blood plasma by capillary tube – 593
– sepn. of metals by continuous free focusing – in stepwise gradient system 572
Electrophoresis, gel
– detection of horseradish peroxidase in SDS – 489
– practice of quant. –, book 61
– two-dimensional –, computer data acquisition 572
– two-dimensional –, computerized spot detection 572
Elemental analysis
– , spectrometry, X-ray fluorescence, photon induced fluorescence cross-sections for K shell X-ray lines 64
– spectrometry, X-ray fluorescence – using synchroton radiation 64
Elements
– certification of – in waste incineration ash 414
– concentration cadasters of Swedish peat bog soils, standard reference materials for inorganic environmental chemistry 716
– detmn. of – and trace elements in silicate materials, soils, sediments, sludge after HF-digestion in a closed system 135
– detmn. of – by spectrometry, ICP-AES, gaseous sample state 567
– detmn. of – in airborne particulates by ICP-AES 419
– detmn. of – in alloys by spectrometry, atomic emission with hollow cathode plume 80
– detmn. of – in biological materials by SI mass spectrometry, ashed specimens 394
– detmn. of – in columbite-tantalite by X-ray fluorescence spectrometry 178
– detmn. of – in mine water by ICP-AES 477
– detmn. of – in rocks by ICP-AES, interference by U and Zr 87

Elements
– detmn. of – in sea water by MIP-AES, solution nebulization 477
– detmn. of major – and trace elements in biological materials by AAS, high reliability 739
– separation and spectrophotometry detmn. of –, book 564
Elloramycins
– ident. of new – in biological cultures by HPLC and diode array detection 392
Enantiomers
– resolution of – via ligand exchange chromatography, thin-layer 266
– sepn. of – as diastereomeric derivatives by GLC 467
– sepn. of – by chromatography, liquid on chiral phases 371
Endogenous compounds
– detmn. of – and exogenous compounds in blood plasma by HPLC, derivatization 485
Endotoxins
– detmn. of bacterial – with 1,9-dimethylmethylene blue 493
Enkephalin pseudopeptides
– sepn. of – by reversed-phase HPLC 396
Enprofylline
– detmn. of – and methylxanthines in blood serum by HPLC 492
Environmental analysis
– cadmium induced proteins from marine organism as biological reference materials for – 719
Environmental chemistry
– elements concentration cadasters of Swedish peat bog soils, standard reference materials for inorganic – 716
– immunoassay in – 388
Environmental materials
– anal. of – by spectrometry, X-ray fluorescence, enhancement effect 370
– detmn. of arsenic in – by different anal. techniques 278
– detmn. of fluoride in – by ISE 277
– detmn. of mercury, arsenic and selenium in – by radiochem. NAA 278
– enrichment of amino acids and carboxylic acids in – on copper-loaded silica/HPLC 388
Environmental pollution
– , detmn. of nitrobenzenes, polychlorinated in Main river fish, after their sepn. and select. fraction 139
Environmental pollution control
– mutagenicity testing in –, book 62
Environmental samples
– artefact formation during Tenax sampling of hydrocarbons, polycyclic aromatic from – 183
– detmn. of alkylphenol ethoxylates in – by HPLC/fluorimetry 276
– detmn. of cyanide in – and blood, review 464
– detmn. of lead in – by graphite furnace AAS 478
– identification of biphenyls, polychlorinated congeners in technical mixtures and – by HRGC-ECD/HRGC-MSD 253
– ident. of carbazole derivatives in gas oil and – by GC/MS 470
– routine anal. of biphenyls, polychlorinated in –, fish by capillary GC with ECD 388
Environmental specimen bank
– prep. of specific reference materials for – 707
Enzymatic solubilization
– anal. of biological materials by –, pre-column technique and HPLC 483
Enzyme electrode
– amperometric – system for flow-injection anal. of glucose 269
– detmn. of glucose by flow-injection analysis, theory of – detection 79
Enzyme electrode
– detmn. of lactate, extracorporeal monitoring by amperometric – 484
– detmn. of urea by – 592
– flow-injection assay of the activity of chemically-modified – 99
– for L-glutamate using chemical redox mediators and enzymatic substrate amplification 291
– neutral liquids – based on ion-sensitive field effect transistor 467
– new enzyme membrane for – 164
Enzyme immobilization
– modified polymer for –, urease 99
Enzyme immunoassay
– detmn. of drug antibodies by homogeneous – 191
– detmn. of estradiol-17β in blood plasma by chemiluminescent – 595
– flow-through amperometric detector in – 98
– sandwich – for human thyroid-stimulating hormone (hTSH) in blood serum 99
Enzyme reactions
– bipolar pulse conductometric detection of – in flow-injection systems, urea in blood serum and urine 592
Enzyme sensor
– detmn. of creatinine with – 102
Eosin Y
– detection of electrophoretically resolved protein with – 292
– detmn. of ozone in air with – by chemiluminescence 277
Ephedrine
– anal. of – in oily formulations by HPLC 589
– detmn. of –, epinephrine and norepinephrine by new liquid membrane electrodes 191
Epicillin
– detmn. of – by indirect spectrophotometry, as degradation product 97
Epinephrine
– detmn. of ephedrine, – and norepinephrine by new liquid membrane electrodes 191
– detmn. of isoproterenol and – in inhalation aerosols by automated spectrophotometry 287
Epoxides
– detmn. of – by TLC after picric acid derivatization 274
Epoxy fibres
– charact. of – by pyrolysis capillary GC 472
Epoxyoctadecaenoate esters
– ident. of – in blood by GC/MS 593
Epoxy powder points
– detmn. of volatile compounds in – by GC/MS 472
Estazolam
– detmn. of triazolobenzodiazepine, – in blood and urine by HPLC 493
Esterification
– limitations of some – techniques in structure analysis of kerogen-derived acids 83
Esters
– detmn. of aliphatic ketones and – with brillant green by chromatography 78
– sepn. of – by GLC 173
Estradiol-17β
– detmn. of – in blood plasma by chemiluminescent enzyme immunoassay 595
Estrogens
– detmn. of – and androgens in pharmaceutical products by UV-densitometry 393
– sepn. of A-ring iodinated – by isocratic reversed-phase HPLC 97
Estron sulfate
– detmn. of – in pharmaceutical products by HPLC 97
ET-30
– solvatochromic measurements of solvent polarity, application of – 165
Ethanol
– detmn. of – and acetaldehyde in wine by enzymatic method and FIA 479
– detmn. of – by flow injection anal./fluorimetry 396
– detmn. of – in alcohol-free beer by enzymatic method 92
– detmn. of – in alcoholic beverages by headspace electrical potential measurement 479
– detmn. of – in blood by two TD_s assays 396
– detmn. of – in blood serum and saliva using a continuous-flow bioluminescent system 193
– detmn. of – in breath by IR analyzer, interference by acetaldehyde 484
– detmn. of silicon in aluminum by AAS, effect of – 524
Ethanolamine
– detmn. of – by polarography 471
$1,N^6$-ethenoadenosine
– sepn. of adenosine nucleotides as – by HPLC 201
Ethers
– detmn. of haloidalkyls and – in diethylzinc by GC with prior hydrolysis of the matrix 84
Ethionamide
– detmn. of – and thionicotinamide in pharmaceutical products by spectrophotometry 391
Ethoxycarbohydrazide
– detmn. of carbohydrazide and – by nitrometric titration 581
Ethylbiphenyls
– anal. of methylbiphenyls, – and dimethylbiphenyls in crude oils by LC and GC 272
Ethyldixanthogen
– anal. of – by spectrophotometry, decomposition in ammonia buffer 274
Ethyleneamines
– anal. of mixtures of – and their derivatives by GC 267
Ethylenediamine
– batch and flow-injection detmn. of – in pharmaceutical products 95
Ethylenediamine sulfate
– detmn. of reducing carbohydrates using – derivatization and HPLC with electrochem. detection 269
Ethylene dibromide
– detmn. of – in foods and grains by capillary GC with ECD 94
– detmn. of – in grains by GC, extr. methods 186
Ethylene glycol esters
– reversed-phase HPLC of oligo – 86
Ethylene oxide
– detmn. of – in air by GC, sampling on active charcoal 386
– detmn. of – in air by GC, sampling on HBr-treated charcoal 180
Ethylene oxide/tert. octylphenol condensates
– charact. of –, tensides by UV and IR spectrometry 472
Ethyltin compounds
– detmn. of – in biological materials by HPLC/AAS 591
Ethylxanthate
– detmn. of flotation collectors – and diethyl dithiophosphate by cathodic stripping voltammetry 471
Euclidian geometry
– evaluation of pattern recognition methods by criteria based on information theory and – 167
Europium
– detmn. of samarium and – in chlorides and oxides by fluorimetry in micellar systems 177
Europium(III)
– detmn. of – by flow injection anal./spectrofluorimetry 375
– detmn. of – doping level in oxidic materials by X-ray spectrometry 178

Evans Blue
– anal. of – in blood plasma by HPLC 483
Excitation methods
– comparison of – for X-ray analysis 105
Exogenous compounds
– detmn. of endogenous compounds and – in blood plasma by HPLC, derivatization 485
Expert system
– design of a PROLOG-based – for planning sepn. of steroids by HPLC 104
– for the qual. interpretation of spectra, X-ray fluorescence 167
Expert systems
– in analytical chemistry 203
Explosives
– detmn. of – in water by capillary GC with ECD 183
– detmn. of nitroorganics, – in munitions waste water by reversed-phase HPLC 183
Exposure samples
– detmn. of paraquat in – by ELISA 482
Extraction
– liquid-liquid – of arsenic(III), arsenic(V), methylarsonate and dimethylarsinate 382
– , properties of trioctylamine 69
Extraction, flow-injection
– with a microvolume module 460

F

Famotidine
– detmn. of – in pharmaceutical products by HPLC 190
Fats
– detmn. of cis,cis-methylene interrupted poly-unsaturated fatty acids in – and oils by capillary GC 93
– detmn. of protein, – and lactose in human milk 188
– detmn. of sterols in – by HPLC 93
Fatty acid methyl esters
– anal. of – and dimethyl acetals in biological materials by capillary GC 104
– model for structure-retention relationship for positional isomers of unsaturated – on polar capillary columns 78
Fatty acids
– anal. of saturated monohydroxy – by HPLC 196
– detmn. of – and alcohols in wax esters of marine organisms by HPLC 196
– detmn. of – and sterols in orange juice by GLC 283
– detmn. of cholesterol, plasmalogens and – in biological materials by TLC-FID on chromarods 595
– detmn. of cis,cis-methylene interrupted poly-unsaturated – in fats and oils by capillary GC 93
– detmn. of deuterium-labeled – in blood plasma by GC/MS 592
– detmn. of free – for lipase activity in oils, edible by colorimetry 187
– detmn. of free – in silage by GC/headspace technique 389
– detmn. of free polyunsaturated – in blood serum by HPLC/fluorimetry 290
– detmn. of higher – in blood plasma by GC 593
– detmn. of volatile free – in urine by GC/MS 290
– detmn. of volatile – in feces by megabore GC 290
– ident. of branched – by FAB and tandem MS 467
– sepn. of – and mono-, di- and tri-glycerides by size-exclusion chromatography 187
– sepn. of hydroxylated metabolites of – (C_{10}–C_{18}) by isocratic HPLC 484
Fatty alcohols
– sepn. of – by capillary GC 266
Feces
– detmn. of iron in – by isotope dilution ICP-MS 484
– detmn. of volatile fatty acids in – by megabore GC 290
– quant. of deoxynivalenol and metabolites in bovine urine and – by GC with ECD 587
Feeds
– detmn. of 2-hydroxy-4(methylthio-)butanoic acid in poultry – by capillary isotachooghoresis 91
– detmn. of adinazolam mesylate in – by HPLC 389
– detmn. of aflatoxins in – by HPTLC 389
– detmn. of aflatoxins in cattle – by LC and post-column derivatization 390
– detmn. of efrotomycin in – by HPLC 586
– detmn. of sterigmatocystin in – by HPLC with column switching 91
– detmn. of tryptophan in – and cereals by HPLC 389
– detmn. of tryptophan in – by HPLC 389
Fenbendazole
– anal. of – in biological materials 294
Fenoctimine
– detmn. of – in blood plasma by capillary GC with N-P-detector 294
Fenoldopam, glucuronides
– detmn. of – in blood plasma and urine by HPLC with electrochem. detection 198
Fenson
– detmn. of dicofol, – and tetradifon in fish and water by GC 286
Ferrioxamine
– detmn. of desferoxamine and – in blood serum by HPLC 490
Ferritin subunits
– sepn. of – by reversed-phase HPLC 594
Ferrocene
– detmn. of lidocaine in blood plasma by – mediated immunoassay 197
Ferrosilicium
– detmn. of silicon in – by AAS 583
Ferrosilicon
– detmn. of silicon in molybdenum disilicide and – by potentiometric titration using fluoride sensitive electrode 176
Ferrotungsten
– multielement analysis of – by spectrometry, ICP-AES 583
Ferrous fumarate
– detmn. of – by cerimetry with azine dye indicators 390
Ferulic acid
– sepn. of – and tyrosine in wheat seeds by reversed-phase HPLC 185
Fiber optic gas sensing probe
– detmn. of ammonia by – 169
Field effect transistor
– microsensor for urea based on an ion-selective – 396
– neutral liquids enzyme electrode based on ion-sensitive – 467
Field-flow fractionation
– cyclical-field – 460
– , secondary relaxation effects 67
– steric – for sepn. of large particles 67
– theoretical examination of focusing – 461
– theory of sedimentation hyperlayer – 373
Films, inorganic
– comparison of – and poly(4-vinylpyridine) coatings as electrode modifiers for flow-injection analysis 574
Fingerprinting
– pattern recognition based on fuzzy observations for spectroscopic quality control and chromatographic – 167
Fischer-Tropsch products
– anal. of light – by capillary GC 273
Fish
– detmn. of dicofol, fenson and tetradifon in – and water by GC 286
– detmn. of geosmin in water and – by capillary GC with FID 182
– detmn. of saxitoxins, toxins in – by FAB-MS 188
– environmental pollution, detmn. of nitrobenzenes, polychlorinated in Main river –, after their sepn. and select. fraction 139
– ident. of O,O-dialkyl-S-methylphosphoro-dithioate in – by GC/MS 286
– routine anal. of biphenyls, polychlorinated in environmental samples, – by capillary GC with ECD 388
Fission products
– detmn. of – in uranium dioxide fuels by HPLC 175
Flavanoid aglycones
– sepn. of – by HPTLC 586
Flavin mononucleotide
– detmn. of dithionite in standard solutions by anaerobic fluorescence titration with – 165
Flavobacterium
– comparison of fluorescent pigments from – and Sphingobacterium species 483
Flavognost
– detmn. of theaflavins in tea with – by extr. spectrophotometry 93
Flavonoid glycosides
– anal. of steroids and – by FAB and tandem MS 486
Flavonoids
– detection of – with aminoethanol-diphenyl-borate-PEG400 90
– detmn. of – in black currant products by HPLC 283
– detmn. of – in pharmaceutical products by HPLC 287
Flavonol aglycones
– anal. of – in wine by HPLC 284
Flax seed
– detmn. of linamarin in – by photometry 389
Flotation collectors
– detmn. of – ethylxanthate and diethyl dithiophosphate by cathodic stripping voltammetry 471
Flotation liquors
– detmn. of diethyl dithiophosphate in – 274
Flow analysis
– use of electrodes, ion-selective in industrial – 460
Flow injection
– evaluation of dispersion in a – system by electrochem. detector/personal computer 214
Flow injection analysis
– , automated optimization 574
– comparison of films, inorganic and poly(4-vinyl-pyridine) coatings as electrode modifiers for – 574
– detection of nitrite in – by detector, pneumato-amperometric 75
– detmn. of arsenic by hydride generation – and molecular emission cavity analysis 73
– detmn. of fluoride by – using electrodes, ion-selective 377
– detmn. of glucose by –, theory of enzyme electrode detection 79
– of sulfide by precipitation with cadmium ions and detection by AAS 170
– polypyrrole electrode as detector for anions, electroinactive by – 460
– , reverse flow injection formation of monitorands 460
– sample dispersion with chemical reaction in – 69
Flow-injection manifold
– a variable dispersion – for calibration and sample dilution in flame spectrometry, atomic absorption 161

Flow-injection systems
– pharmaceutical analysis using – 94
Flow pattern
– axially-dispersed plog flow model for the – in elements of fluid systems 373
Flue dust
– detmn. of gallium in – and fly ashes by graphite furnace AAS 178
Fluid inclusions
– detmn. of gases in individual – in natural minerals by MS 179
Fluid systems
– axially-dispersed plog flow model for the flow pattern in elements of – 373
Fluorescamine
– detmn. of propham by synchronous derivative fluorometry, – labeling 285
– detmn. of proteins (ng) with – by HPLC 594
Fluorescein
– acid strengths of – by potentiometric titration 575
– detmn. of – by immunoassay, elimination of bilirubin interference 191
– studies on –, acid dissociation from the titration curves of acids, dibasic 575
Fluorescence cross-sections
– elemental analysis, spectrometry, X-ray fluorescence, photon induced – for K shell X-ray lines 64
Fluorescence reagents
– new metal sensitive – 70
Fluoride
– detmn. of aluminum and beryllium with – by titration 168
– detmn. of – and tin in fluoride-doped tin oxide films on glass 584
– detmn. of boron in methanolic solution by flame AES, influence of – on the transport efficiency 168
– detmn. of – by electrodes, ion-selective in non-linear response region 76
– detmn. of – by flow injection analysis using electrodes, ion-selective 377
– detmn. of –, effect of hydrolysed aluminum species 76
– detmn. of – in environmental materials by ISE 277
– detmn. of – in potable water by potentiometric FIA 476
– detmn. of – with ion-selective electrodes, masking of aluminum 584
– oxidimetric detmn. of titanium(II,III) in presence of – 83
Fluorimetry
– , anisotropy measurements of three-component mixtures 370
– decreased apparent sensitivity by means of constant-energy synchronous – 370
– detmn. of hydrocarbons, polycyclic aromatic by sensitized – 281
Fluorimetry, laser
– appl. of pattern recognition to ident. of pathogens by – 288
Fluorimetry, synchronous derivative
– detmn. of zinc traces by – 462
Fluorine
– detmn. of – by XRF 558
– detmn. of –, chlorine, bromine, iodine and sulfur in organic compounds by IR-ICP-AES 173
– detmn. of – in electrolytical bathes by ion-selective electrodes 383
Fluoroimmunoassay
– phase-resolved – of human serum albumin 99
Fly ashes
– detmn. of boron in alloys and – by thermal neutron/γ-spectrometry 380
– detmn. of gallium in flue dust and – by graphite furnace AAS 178
Fly ashes
– K_0 standardization method in reactor NAA of standard steel and – 583
Folate
– detmn. of – in vitamin tablets by an EMIT type assay 393
Folate monoglutamates
– detmn. of – in blood plasma by HPLC 488
Folates
– detmn. of 5-formyltetrahydrofolic acid and – in blood plasma by microbiolog. assay 197
Folic acid
– detmn. of – and dihydrofolate by radioenzymatic anal. 487
Folylpolyglutamate hydrolase
– detmn. of – by micellar HPLC 400
Food analysis
– need for reference materials for – in Latin America 669
– standard reference materials for agrochemical analysis and –: prep./charact. of bovine muscle powder 627
– use of laboratory prepared reference materials for traces of nutrients in – 665
Food colors
– anal. of 2-acetyl-4(5)tetrahydroxybutyl-imidazole in – by chromatography 189
– detmn. of – in pharmaceutical products by LC 590
– detmn. of pyrocyclidine hydrochloride with – by spectrophotometry 588
– ident. of – in pharmaceutical products and cosmetics by adsorptive stripping voltammetry 590
Foods
– anal. of carboxylic acids in – and beverages as p-nitrobenzyl esters by HPLC 283
– anal. of macronutrients in –, Eurofoods trial on between-laboratory variation 690
– chemical preservation of –, book 366
– detmn. of acetaldehyde in aqueous – by headspace GC 284
– detmn. of azaarenes in –, meat by GC 188
– detmn. of cadmium in – by electrothermal AAS, slurry technique 283
– detmn. of calcium in – with ion-selective electrode 283
– detmn. of cancerogenic nitrosamines in – by fluorimetry 93
– detmn. of ethylene dibromide in – and grains by capillary GC with ECD 94
– detmn. of hydrocarbons, polycyclic aromatic, nitrated in smoked – by LC 93
– detmn. of. industrial chemicals and pesticides in – by GC with ECD 189
– detmn. of iron in wine, – and minerals with 5, 5-dimethyl-1,2,3-cyclohexanetrione 1, 2-dioxime 3-thiosemicarbazone by spectrophotometry 284
– detmn. of nitrate and chloride in – by ion chromatography 480
– detmn. of pesticides in – by GC 285
– detmn. of purines and pyrimidines in – by LC 480
– detmn. of radioactivity in –, microwave dehydration method 482
– detmn. of sodium in salted – by ion-selective electrodes 480
– detmn. of sulfite in – by flow-injection anal. 92
– detmn. of sulfite in – by ion chromatography 92
– detmn. of sulfite in –, reevaluation of Monier-Williams method 92
– detmn. of sulfonamides in – by HPLC and GC 187
– detmn. of trace metals in – by AAS 283
– detmn. of trace metals in – by ICP-MS 283
– detmn. of traces of heavy metals in – with a mass spectrometer, thermal ionisation quadrupole 118
– detmn. of. vitamin A in – by HPLC 189
Foods
– need for – reference materials in Asia 673
– quality control program for anal. of trace elements in – and diet foods by FOA European cooperation 684
– reference materials for quality improving of data on nutrients composition in – 660
– shelf life of – and beverages, book 366
– volatile compounds in –, ser. 1: qualitative data, ser. 2: quantitative data, book 259
Forages
– detmn. of. nitrate in – by ion-selective electrodes 189
Formaldehyde
– detmn. of – in air, two personal monitoring method 180
– detmn. of – in automobile exhausts by FT-IR spectrometry 180
– detmn. of – in coffee by GC, as thiazolidine derivative 93
– detmn. of –, lower carbonyl compounds and alkalidene end groups in ng range 267
Formimidoylthienamycin
– detmn. of N– in blood serum by HPLC 491
5-Formyltetrahydrofolic acid
– detmn. of – and folates in blood plasma by microbiolog. assay 197
Fructosamine
– detmn. of – in blood serum, standardization problems 293
Fructose
– detmn. of sucrose and – in biological materials by TLC and video densitometry 484
– sepn. and detmn. of radiolysis products of D– and O-benzyloximes by HPLC 293
Fructose 2,6-biphosphate
– detmn. of – by competitive binding assay 592
Fruit juices
– detmn. of ascorbic acid in beverages, – by UV spectrometry 481
Fruits
– detmn. of gibberellic acid residues on – by scanning derivative fluorimetry 186
Fulvic acid
– anal. of – in soils by time-dependent fluorescence depolarization 474
– comparative study of heavy metal complexation by – 477
– study of solution phase complexing of atrazine by – 286
Fuorine
– detmn. of –, chlorine and bromine in organic compounds by combustion tube method/ion chromatography 267
Furazolidone
– detmn. of – in swine tissues and urine by HPLC after Extrelut-1 extr. 188
Furosemide
– sepn. of –, phenylbutazone and oxiphen butazone in blood plasma by HPLC 587

G

Gadolinium
– detmn. of cerium and – in lanthanide minerals, minerals by fluorimetry 384
– detmn. of – in conc. solutions of nitrate salts by UV spectrometry 169
Galactokinase
– detmn. of – in hemolysates by isoelectric focusing 398
Gallium
– detmn. of – in flue dust and fly ashes by graphite furnace AAS 178
– detmn. of tellurium in – by anodic stripping voltammetry 80
– detmn. of trace impurities in – by tungsten furnace AAS 380
– detmn. of – traces by stripping voltammetry with adsorptive accumulation 375

Gallium
– extr. chromatographic sepn. of – with trioctylphosphine oxide 584
– sepn. of lead traces from large amounts of zinc, indium, – and other elements in reagents on anion-exchange resin 80
Gallium arsenide
– detmn. of impurities in – by SIMS 82
– detmn. of impurities in – crystals by AAS 82
– detmn. of selenium in – by polarographic techniques 382
Galvanic electrolytes
– detmn. of proteins in – by biuret reaction 83
Galvanic wastes
– detmn. of metals in – by TLC on modified cellulose 585
Ganglioside GM_1 synthase
– detmn. of – by radioimmunoassay 489
Gardenoside
– detmn. of –, geniposide, iridoid compounds by reversed-phase HPLC 97
Gases
– anal. of – containing sulfur gases by GC, control of desulfurization 278
– anal. of water-dissolved – by GC 474
– detmn. of – in individual fluid inclusions in natural minerals by MS 179
– detmn. of oxygen in – by electrochemical and paramagnetic cells 386
Gas oil
– ident. of carbazole derivatives in – and environmental samples by GC/MS 470
Gasoline
– detmn. of alcohols and methyl-tert.-butylether in – by GC 470
– detmn. of hydrocarbons, aromatic in – by capillary GC 273
– detmn. of tetraethyllead and tetramethyllead in – by HPLC, detection at Hg electrodes 85
– sepn. of hydrocarbon groups in – by HPLC 273
Gasoline engine exhaust
– anal. using constant energy synchronous luminescence spectrometry 273
Gas sensor
– detection of alcohols by – with polypyrrole layer 78
Geniposide
– detmn. of gardenoside, –, iridoid compounds by reversed-phase HPLC 97
Geological materials
– anal. of – by activation analysis, neutron, reduction of β-interference 383
– application of differential scanning calorimetry in – 474
– detmn. of bismuth in – by automated hydride generation AAS 473
– detmn. of gold in –, comparison of MIBK and DIBK for extr. 87
– detmn. of silver in – by INAA with a radionuclide neutron source 87
– detmn. of ultratrace osmium in – by laser excitation of precipitates 88
– detmn. Sb, As, Bi, Cd, Cu, Pb, Mo, Ag and Zn in – by spectrometry, atomic absorption 88
– microwave oven for the dissolution of – 178
– sepn. preconc. of lanthanides and yttrium from – 88
Geoporphyrins
– charact. of high-carbon-number – by tandem MS 179
Geosmin
– detmn. of – in water and fish by capillary GC with FID 182
Germanium(IV)
– detmn. of thallium(III) and – with chloro-substituted hydroxamic acids by extr. spectrophotometry 463
Gibberellic acid
– detmn. of – residues on fruits by scanning derivative fluorimetry 186
Gibberellin conjugates
– anal. of gibberellins and – by ion-suppression reversed-phase HPLC 487
Gibberellins
– anal. of – and gibberellin conjugates by ion-suppression reversed-phase HPLC 487
Ginseng products
– anal. of ginsenosides in – by HPLC 98
Ginsenosides
– anal. of – in Ginseng products by HPLC 98
Glass
– detmn. of boron in – with azomethine H by spectrophotometry 383
– detmn. of lanthanides in – by NAA 383
– detmn. of trace elements in optical –, coprecipitation and AAS 528
Glassy carbon
– surface properties of electrochemically pretreated – 164
Glucose
– amperometric enzyme electrode system for flow-injection anal. of – 269
– detmn. of – by flow-injection analysis, theory of enzyme electrode detection 79
– detmn. of – in blood serum by liquid scintillation 292
– detmn. of – in blood serum, on-line clarification for turbid samples 592
– detmn. of – in blood using an enzyme electrode with extended linearity 100
– detmn. of – in sugars by HPLC 586
Glucosides
– sepn. of acetylated – by GC and LC 582
Glucosinolates
– detmn. of – in rapeseed by X-ray fluorescence of S-content 441
Glucuronidation
– detmn. of 3-hydroxybenzo[a]-pyrene – by cells, fluorimetry 288
Glutamate
– enzyme electrode for L– using chemical redox mediators and enzymatic substrate amplification 291
Glutamic acid
– capillary GC micro-assay for pyroglutamic acid. –, aspartic acid, glutamine and asparagine in physiological samples 291
Glutamine
– capillary GC micro-assay for pyroglutamic acid. glutamic acid, aspartic acid, – and asparagine in physiological samples 291
γ-Glutamyltransferases
– anal. of – by HPLC with electrochem. detection 399
γ-Glutamyltranspeptidase
– assay for – activity in blood serum by HPLC with electrochem. detection 494
Glutathione
– detmn. of cysteine, – and ascorbic acid by simult. spectrophotometry after iodine-azide reaction 268
– detmn. of – in biological materials by LC with glassy carbon electrode 396
Glutathione disulfide
– detmn. of – in biological materials by spectrophotometry 396
Glycerides
– sepn. of fatty acids and mono-, di- and tri– by size-exclusion chromatography 187
Glycerine
– detmn. of arsenic in – by flow injection, hydride generation and ICP-AES 288
Glycerol
– detmn. of –, 1,2-propanediol and triglycerides in blood serum by HPLC and post-column reactor 485
Glycidic esters
– GC behavior of – 269
Glycolneuraminic acid
– detmn. of N-acetylneuraminic acid and N-– by HPLC/thiobarbituric acid assay 397
Glycols
– sepn. of C_3–C_6 branched – by GC, retention 173
Glycoproteins
– radiation target analysis of – 595
Glycosaminoglycans
– detection of – on cellulose acetate strips with heme undecapeptide 103
Glyoxal bis(4-phenyl-3-thiosemicarbazone)
– detmn. of palladium in catalysts with – by spectrophotometry 583
Glyphosate
– detmn. of –, glyphosine in herbicides by isotachophoresis 286
Glyphosine
– detmn. of glyphosate, – in herbicides by isotachophoresis 286
Gmelin handbook
– , antimonyorgano compounds, part. 4 259
– , beryllium, suppl. vol. A1, the element 453
– , lanthanides, compounds with selenium 566
– mononuclear ironorgano compounds 367
– , platinum, technology of platinum-group metals 259
– , rare earth elements, part D 4, coordination compounds 62
– , thorium, the element 366
– , tin-oxygen compounds 453
Gold
– detmn. of – by potentiometric titration after hydrazine reduction 461
– detmn. of – in geological materials, comparison of MIBK and DIBK for extr. 87
– detmn. of – in water by anion-exchange batch extr. and electrothermal AAS 279
– detmn. of platinum, palladium, – and silver in ores, wet chemical analysis of the lead button 87
– detmn. of platinum, palladium, rhodium and – in silicate rocks by electrothermal AAS 87
Gold(III)
– detmn. of – by spectrophotometry using amides and amines 168
– detmn. of – using coated-wire electrodes, ion-selective 374
Grain products
– detmn. of deoxynivalenol in – by TLC 185
Grains
– detmn. of ethylene dibromide in – by GC, extr. methods 186
– detmn. of ethylene dibromide in foods and – by capillary GC with ECD 94
Graphic interpretation
– modelling and – of response surfaces in chemical anal. 576
GTP cyclohydrolase I
– assay of – in tissues by radioimmunoassay 299
Guanabenz acetate
– detmn. of – in pharmaceutical products by polarography 446
Guanidines
– detmn. of – in blood serum by ion-exchange HPLC 488
Guanosines
– ident. of benzylated – by FAB and collisional activation mass spectrometry 488
Guayule
– detmn. of resins and rubber in – by modified Soxhlet procedure 184

H

Hafnium
– detmn. of – and zirconium in uranium ores by NAA 384
– detmn. of zirconium and – by AAS 73

Hair
– detmn. of copper and zinc in – by ICP-AES spectrometry, direct sample insertion 192
– detmn. of copper(I) in – by AAS, extr. with naphthalene as ion associate 576
Hair dyes
– detmn. of dye intermediates in oxidative – by capillary GC 473
Halides
– detmn. of trace aqueous – by votalization into a microwave-induced helium plasma 76
Halocarbons
– detmn. of – in water by GC, headspace and extr. techniques 280
Halogenates
– detmn. of antimony(V) and – with 2,2′-diquinoxalyl by spectrophotometry 575
Haloidalkyls
– detmn. of – and ethers in diethylzinc by GC with prior hydrolysis of the matrix 84
Haloperidol
– detmn. of – in blood plasma by reversed-phase HPLC 295
Hazardous goods
– handbook of – 160
Hazardous substances
– ident. of – in waste sites by computerized IR anal. 388
Heavy metal alloys
– investigation of phosphorus embrittlement in – by SIMS/TEM 218
Heavy metals
– detmn. of – in inorganic colloids in water 278
– detmn. of – in urine and biological tissues by DPASV 192
– detmn. of traces of – in foods with a mass spectrometer, thermal ionisation quadrupole 118
Helium micro-wave induced plasma
– spectrometry, atomic emission, electrothermal vaporization sample introduction in an atmospheric pressure – 567
Hematoporphyrin
– sepn. of – and metalloporphyrins by HPLC 298
Heme undecapeptide
– detection of glycosaminoglycans on cellulose acetate strips with – 103
Hemodialysis solutions
– detmn. of aluminum traces (ppb) in – by fluorimetry 484
Hemoglobin
– detmn. of benz[a]pyrene in – by HPLC 298
Hemoglobins
– sepn. of – and other proteins by cation-exchange chromatography 298
– sepn. of asymmetrical hybrid – by HPLC 595
Hemolysates
– detmn. of galactokinase in – by isoelectric focusing 398
Heparin
– dot-blot assay for —binding proteins 594
Heparin sulfamidase
– detmn. of – with oligosaccharide substrates 400
Heptaene
– sepn. of aromatic – antibiotics by HPLC 96
Herbicides
– amides of carboxylic acid – for GC anal. 482
– anal. of acid – in natural water as pentafluoro-benzyl esters by capillary GC 285
– anal. of phenoxy acid – by HPLC 482
– detmn. of glyphosate, glyphosine in – by isotachophoresis 286
– detmn. of methylviologen, paraquat in – by differential pulse polarography 285
– detmn. of phenoxy acid herbicides, – in water by solid-phase extr./HPLC 183
Heroin
– detmn. of impurities in – by capillary GC after reduction and derivatization 394
Heterocyclic compounds, N-
– anal. of – in shale oils by capillary GC 272
– charact. of –, hydrogenated, by NMR spectrometry 760
Hexabromo-2-butene
– detmn. of – in waste water by turbidimetry 280
Hexacyanoferrates
– voltammetry of – using a chemically modified carbon-paste electrolyde 464
Hexafluorotantalate
– detmn. of tantalum using – electrodes, ion-selective 74
Hexamethonium bromide
– detmn. of – in pharmaceutical products by HPLC with UV and IR detection 190
Hexanoic acid
– synthesis and extr. behavior of dibenzo-14-crown-4 derivatives of acetic acid and – 574
HI-6 dichloride
– sepn. and ident. of substiututed pyridine analogues in – solutions 85
Histamine
– detmn. of histidine, – and their mixtures by kinetic fluorimetric methods 468
Histidine
– detmn. of –, histamine and their mixtures by kinetic fluorimetric methods 468
Honey
– detection of sulfathiazole in – by anion-exchange tube 92
Horseradish peroxidase
– detection of – in SDS electrophoresis, gel 489
Humic substances
– detmn. of – in sea water using adsorptive stripping voltammetry 182
Hyaluronate oligosaccharide-degrading enzymes
– detmn. of – by isotachophoresis 299
Hyaluronic acid
– anal. of – and chondroitin sulfates in urine by HPLC 397
Hyamine 1622
– ion-sensitive membrane electrode for – 86
Hydantoin-5-propionic acid
– detmn. of – in urine by GC 593
Hydrazine
– detection of ascorbic acid, – and hydroxyl-amine at copper electrode and LC 271
– detmn. of gold by potentiometric titration after – reduction 461
– detmn. of – in polyvinylpyrrolidone by HPLC 274
Hydride generator
– reproducible – for spectrometry, atomic 162
Hydrocarbon groups
– sepn. of – in gasoline by HPLC 273
Hydrocarbons
– anal. of C_6 – by GC, equation for retention 172
– anal. of – in petroleum fractions by GC, calibration factors 470
– detmn. of C_2–C_5 – in air by GC, dry ice preconc. 180
– detmn. of hydrogen isotope ratio in – of crude oils by pyrolysis method 469
– detmn. of – in marine organisms by HPLC, TLC and LC 478
– detmn. of – in natural mixtures by multi-dimensional GLC 469
– detmn. of trace – in aqueous samples by repetitive stripping and trapping 84
– detmn. of trace water contents in liquefied – by headspace GC 278
– sepn. of C_8 cyclic and aromatic – by capillary GC, optimization of stationary phase 269
Hydrocarbons, aromatic
– anal. of –, alkylbenzenes by mass spectrometry, methane high pressure collisional activation 570
– detmn. of – as impurities in dimethyl formamide by luminescence 84
– detmn. of – by GC, electron capture sensitization 468
Hydrocarbons, aromatic
– detmn. of – in gasoline by capillary GC 273
– structure-retention relationship anal. for mono- and polycyclic – in reversed-phase HPLC 469
Hydrocarbons, chlorinated
– anal. of – in water by GLC 387
– detmn. of readily volatile – in soils 33
Hydrocarbons, halogenated
– detection of – in soils by EOX 154
– detection of – in water by GC, comparison of direct headspace and aqueous injection 478
– detmn. of volatile – in water by headspace GC 387
Hydrocarbons, polycyclic aromatic
– anal. of – by mass spectrometry, laser 281
– artefact formation during Tenax sampling of – from environmental samples 183
– collection phases in sampling of – at workplace 25
– detmn. of – and hydrocarbons, polycyclic aromatic, nitrated by GC, prediction of retention 282
– detmn. of – by ESR spectrometry 79
– detmn. of – by reversed-phase LC, retention prediction system 183
– detmn. of – by reversed-phase LC, retention prediction 281
– detmn. of – by sensitized fluorimetry 281
– detmn. of – in airborne particulates by GC, cleanup 184
– detmn. of – in oils, edible by LC with programmed fluorescence detection 481
– detmn. of – in soils by XAD-2 clean-up 89
– detmn. of volatile – in air from particulate profiles, partial least-squares regression 184
– extr. of biphenyls, polychlorinated from sediments, – from airborne particulates by SFC 282
– GC retention behavior of – on smetic liquid crystalline polysiloxane stationary phases 174
– ident. of – in coal flue gas condensate 401
– ident. of – in diesel exhaust and air by GC/MS 183
– ident. of – metabolites and DNA adducts by fluorescence line narrowing spectrometry 281
– positive- and negative-ion chemical ionization GC/MS of – 468
– sepn. of – by HPLC on cyano/amino bonded silica 281
Hydrocarbons, polycyclic aromatic, nitrated
– detection of – by surface-enhanced Raman spectrometry 282
– detmn. of – by SFC with thermionic detector 282
– detmn. of hydrocarbons, polycyclic aromatic and – by GC, prediction of retention 282
– detmn. of – in smoked foods by LC 93
Hydrocodone
– ident. of – in pharmaceutical products by HPLC/IR spectrometry 393
Hydrocortisone
– detmn. of prednisolone, prednisone, cortisone and – in blood plasma by solid-phase and liquid-liquid extr. 294
Hydrogen
– detmn. of carbon and – in antimonyorgano compounds, halogen interference 466
– response of palladium coated suspended gate field effect transistor 374
Hydrogen cyanide
– detmn. of – and cyanogen in air by automated GC 474
– electrochemical generation of small amounts of – 165
Hydrogen isotope ratio
– detmn. of – in hydrocarbons of crude oils by pyrolysis method 469

Hydrogen peroxide
– detmn. of – by kinetic fluorimetry, reaction rate method 374
– detmn. of enzymatically generated – based on chemiluminescence 99
Hydrogen peroxides
– detmn. of – in air by automated fluorometry 277
Hydrogen sulfide
– detmn. of – in air by spectrophotometry with silver-gelatin complex 475
Hydroperoxides
– detmn. of traces – in organic materials 273
Hydroquinone
– detmn. of – in skin-toning creams by HPLC 98
Hydroxamic acids
– detmn. of palladium(II) with – by extr. spectrophotometry 580
Hydroxyacetophenone, β-D-glucopyranoside, p-
– anal. of hydroxyacetophenone, p- and – in plants by HPLC 185
Hydroxyacetophenone, p-
– anal. of – and hydroxyacetophenone, β-D-glucopyranoside, p- in plants by HPLC 185
α-Hydroxy acids
– detmn. of iron(II) and – with periodate by kinetics anal. 464
N-hydroxyarylamine O-acetyltransferase
– detmn. of – by fluorimetry 400
3-Hydroxybenzo[a]-pyrene
– detmn. of – glucuronidation by cells, fluorimetry 288
1-Hydroxy-2-carboxyanthraquinone
– first derivative spectrophotometry of magnesium with – 461
– photoautomerism in the lowest excited singlet state of – 575
Hydroxycinnamic acids
– coupling of – to Sepharose 6B 372
Hydroxyeicosatetraenoic acids
– anal. of leukotrienes and – in biological materials by HPLC, solid phase extr. 292
4-Hydroxyestriol monoglucuronides
– detmn. of – in biological fluids by HPLC with electrochem. detection 200
Hydroxy fatty acids
– anal. of – as methyl esters in plant cutin by GC 185
2-Hydroxy-fatty acids
– capillary GLC or TLC resolution of – enantiomers 78
Hydroxylamine
– detection of ascorbic acid, hydrazine and – at copper electrode and LC 271
Hydroxyl aromatics
– prediction of retention of – in reversed-phase chromatography, liquid 455
5-Hydroxylysine
– detmn. of desmosine, isodesmosine, –, tryptophan, lysinoalanine and amino sugars in proteins and tissues by amino acid anal. 195
2-Hydroxy-4(methylthio-)butanoic acid
– detmn. of – in poultry feeds by capillary isotachooghoresis 91
2-Hydroxy-1-naphthaldoxime
– detmn. of copper with – by gravimetry 461
Hydroxyphenylthiourea
– detmn. of cobalt by catalytic anal., autoxidation of o– 171
Hydroxyproline
– detmn. of proline and – in biological materials by HPLC 102
8-Hydroxyquinoline
– prep. of platinum metal complexes with – 551
Hydroxyurea
– detmn. of – in pharmaceutical products by HPLC 392
Hypochlorite
– detmn. of – by potentiometry 559
Hypoglycaemic drugs
– detmn. of – in blood plasma by GC/MS 199

I

Ibuprofen
– detmn. of – metabolites in biological fluids by HPLC 197
Imino acids
– detection of amino acids and – with ninhydrin at 405 nm 593
Imipramine
– detmn. of metapramine, – trimipramine and metabolites in blood plasma by HPLC 198
Immunoassay
– detmn. of fluorescein by –, elimination of bilirubin interference 191
– detmn. of immunoglobulin G by kinetic – 594
– detmn. of lidocaine in blood plasma by ferrocene mediated – 197
– in environmental chemistry 388
– of anti-insulin antibodies in guinea pig serum 99
Immunobinding assay
– detection of antigen-antibody complexes by –, cross-blot and cross-dot 394
Immunoblotting
– , enhanced sensitivity by heating of hydrated filters 483
– ident. of proteins in isoelectric focusing by – 486
Immunochemistry
– piezoelectric detection, liquid-phase in – 191
Immunoglobulin G
– detmn. of – by kinetic immunoassay 594
Immunoglobulins
– detmn. of – IgG, IgA and IgM by turbidimetry, single-point calibration 195
– detmn. of – in blood serum by immunoturbidimetry 195
1,2,3-Indanetrione monothiosemicarbazone
– detmn. of osmium traces with – by spectrophotometry 172
Indicators
– study of pyridylazo-N-oxide-8-hydroxyquinoline compounds as – 575
Indicators, acid-base
– new – for titration in acetic acid anhydride 575
Indicators, metallochromic
– sepn. of – and water-soluble dyes by electrophoresis 70
Indium
– detmn. of – with PAN by amperometric titration 375
– high-order derivative spectrophotometric study of the –-PAN complex in acqueous phase 462
– sepn. of lead traces from large amounts of zinc, –, gallium and other elements in reagents on anion-exchange resin 80
Indium antimonide
– detmn. of tellurium, zinc and cadmium in – crystals by voltammetry 82
Indole
– detmn. of – with diazotised sulfanilic acid by spectrophotometry 175
Indole-3-acetic acid
– detmn. of – in plant materials by HPLC 185
Indol-3-yl acids
– investigation of some fluorogenic reactions of – with o-phthalaldehyde by TLC 271
Indometacin
– detmn. of acemetacin and – in blood plasma and blood by HPLC 294
Indomethacin
– detmn. of – by micro-HPLC/post-column in-line hydrolysis 490
– detmn. of – by spectrophotometry and fluorimetry 190
Indophenol
– detmn. of ammonia and urea in water, conc. of – at Amberlite XAD-7 280
Industrial chemicals
– detmn. of. – and pesticides in foods by GC with ECD 189
Industrial effluents
– detmn. of surfactants, non-ionic in aqueous solutions, – by photometry 276
Infant formulas
– detmn. of copper in – by L'vov platform graphite furnace AAS 92
– detmn. of medium chain triglycerides in – by reversed-phase HPLC 187
– detmn. of vitamin B_2 and vitamin B_6 in – by reversed-phase HPLC 189
– sepn. of sugars in – and milk products by HPLC 187
Information theory
– evaluation of pattern recognition methods by criteria based on – and Euclidian geometry 167
Inhalation aerosols
– detmn. of isoproterenol and epinephrine in – by automated spectrophotometry 287
Injection loop
– membrane-dialyzer – for enhancing the selectivity of anion-responsive electrodes, liquid membrane 574
Inorganic elements
– detmn. of – and organic nutrients in mixed diet foods reference materials 702
Inosine
– detmn. of α-impurities in the β-polymorph of – by IR and X-ray methods 291
– detmn. of adenosine and – in blood plasma with immobilized enzyme columns, FIA, fluorimetry 595
Insects
– microanal. of prostaglandins and ecdysteroids in – by HPLC/fluorimetry 293
Insulin
– thermodynamic parameters for the interaction of lipid-binding peptides und – 397
Interference blank technique
– detmn. of nitrate by ion-selective potentiometry, use of – 75
Interlaboratory data
– best estimates from – 576
Intraocular fluids
– detmn. of iron in – and blood plasma by electrothermal AAS 193
Iodate
– detmn. of – and periodate at the microgram level by kinetic method 377
Iodide
– detmn. of nitrate, perchlorate and – by voltammetry at a HMDE 376
– prep. of electrodes, ion-selective, AgI-based membrane for – and mercury(II) 573
Iodinated contrast media
– detmn. of – in blood by HPLC and TLC 494
Iodine
– detmn. of fluorine, chlorine, bromine, – and sulfur in organic compounds by IR-ICP-AES 173
– detmn. of – in air by colorimetry 277
– detmn. of – in hydrochloric acid 567
– detmn. of – in milk and urine by spectrophotometry, Sandell-Kolthoff reaction 480
– detmn. of – in organic substances using low-temperature ammonia plasma of high-frequency discharge 77
– detmn. of total – in natural water by polarography 280
Iodine values
– detmn. of – of lipids by bromide ion-selective electrode 92
Iodometry
– , primary standards for thiosulfate standardisation 574
Ion-exchange
– sepn. of oligonucleotides and DNA fragments by mixed-mode hydrophobic – and HPLC 399

Ion-exchange
– sepn. of trace metals by – on poly(dithiocarbamate) chelating resins 64
Ion-exchange resins
– carboxymethylated polyethyleneimine-polymethylenepolyphenylene isocyanate – preconcentration 275
Ion-exchangers
– sepn. of alkali metals and transition metals using zirconium phosphate siliga gel as – 260
– study of silicagel supported zirconium phosphate as – 371
Ion lines
– distribution of radial intensity of atom lines and – in spectrometry, ICP, argon 49
Ion-selectivity
– of plasticizers in poly(vinylchloride) membrane electrodes 472
Iridium
– controlled-potential coulometry of – with a glassy carbon electrode 172
– detmn. of – in platinum concentrates by voltammetry 82
– detmn. of osmium and – with acenaphthenequinone monothiosemicarbazone by spectrophotometry 379
– detmn. of palladium and – with phenyltrimethyl-pyrimidine-thiol by spectrophotometry after extr. into molten naphthalene 580
– detmn. of platinum and – in water, marine sediments and marine organisms, isolation as anions on resins 386
– detmn. of – traces in standard reference materials by NAA 580
Iridoid compounds
– detmn. of gardenoside, geniposide, – by reversed-phase HPLC 97
Iron
– detection of trace copper, – and manganese in cotton by TLC 275
– detmn. of aluminum in – by electrothermal AAS 583
– detmn. of – by catalytic anal., leukomalachite green/H_2O_2 reaction 378
– detmn. of – by flow injection anal./spectrophotometry, iron-induced perbromate-iodide reaction 377
– detmn. of – in dolomites by radioisotope X-ray fluorescence 179
– detmn. of – in feces by isotope dilution ICP-MS 484
– detmn. of – in intraocular fluids and blood plasma by electrothermal AAS 193
– detmn. of – in ores by enthalpimetric FIA 473
– detmn. of – in process samples from chemical cleaning of coals by spectrophotometry 83
– detmn. of – in water with thiazolylazoaminophenol derivatives by spectrophotometry 478
– detmn. of – in wine, foods and minerals with 5,5-dimethyl-1,2,3-cyclohexanetrione 1,2-dioxime 3-thiosemicarbazone by spectrophotometry 284
– detmn. of sulfur in – and iron alloys by isotope dilution spark source MS 81
– detmn. of trace elements, masking, chelation and extr. of high – and salt matrices 583
– detmn. of trace metals in – and steel by multielement extr. and AAS 380
– detmn. of – traces in water by chemiluminescence 280
– detmn. (simult.) of cobalt, nickel and – in polymeric materials by a.c. voltammetry 86
– flow injection anal. of iron(II), iron(III) and total – with chemiluminescence detection 377
– sepn. of uranium from – and thorium by extr. with tributylphosphate 578
Iron(II)
– detmn. of – and α-hydroxy acids with periodate by kinetics anal. 464
Iron(II)
– detmn. of – with 2-acetylpyridine-2-benzothiazolylhydrazone by extr. spectrophotometry 464
– detmn. of – with di-2-pyridyl ketone benzoylhydrazone by extr. spectrophotometry 579
– detmn. (simult.) of – and iron(III) in aqueous solution by kinetic spectrophotometry with tiron 170
– flow injection anal. of –, iron(III) and total iron with chemiluminescence detection 377
– rel. stoichiometry of the oxidation of – by ozone in aqueous solution 170
Iron(III)
– detmn. of – in salicylates with purpurin by extr. spectrophotometry 587
– detmn. of – in water with 5-Br-DMPAP by spectrophotometry 386
– detmn. of – traces in metals, water, wine and urine as purpurin complex by spectrophotometry 170
– detmn. of – with 1,10-phenanthroline and tetraphenyloborate by spectrophotometry 378
– detmn. (simult.) of iron(II) and – in aqueous solution by kinetic spectrophotometry with tiron 170
– flow injection anal. of iron(II), – and total iron with chemiluminescence detection 377
– spectrometry, photoacoustic, detmn. of copper (II) and – complexed on modified silica gel 569
– voltammetric behavior of – at modified electrodes 170
Iron alloys
– detmn. of sulfur in iron and – by isotope dilution spark source MS 81
Ironorgano compounds
– Gmelin handbook mononuclear – 367
Iron oxide
– detmn. of silicon in – for ferrite by AAS and molybdenum blue spectrophotometry 381
– detmn. of trace silicon in – by distillation-spectrophotometry 562
IR screening technique
– anal. of waste materials by automated – 479
ISFET
– simult. evaluation of membranes, electroactive on a four-function – 164
Isocyanate groups
– detmn. of – in macrodiisocyanate and polyurethanes by potentiometric titration 85
Isocyanates
– negativ ion mass spectrometry, CI of – 228
Isodesmosine
– detmn. of desmosine, –, 5-hydroxylysine, tryptophan, lysinoalanine and amino sugars in proteins and tissues by amino acid anal. 195
Isoelectric focusing
– ident. of proteins in – by immunoblotting 486
Isoflavones
– detmn. of – in soy beans by HPLC with amperometric detection 586
Isomers
– sepn. of – by chromatography, gas, complexation 458
Isopeptides
– structural anal. of – by HPLC 485
Isophthaldihydroxamic acid
– detmn. of cobalt with – by spectrophotometry 579
Isopramide
– detmn. of – iodide in pharmaceutical products by HPLC 589
Isoprenaline
– detmn. of – in pharmaceutical products by HPLC 191
Isoproterenol
– detmn. of – and epinephrine in inhalation aerosols by automated spectrophotometry 287
Isotachophoresis
– isotope dilution analysis in column-coupling – 572
Isotope dilution analysis
– in column-coupling isotachophoresis 572
Isotopically labeled compounds
– synthesis and applications of –, book 367

J

Jet fuels
– detmn. of corrosion inhibitors in – by gel permeation chromatography 470

K

Kallikrein
– detmn. of – in urine by spectrophotometry, construction of nl colorimeter 399
Kalman filter
– background subtraction for fluorescence detection in chromatography, thin-layer and adaptive – 266
Karl Fischer reagent
– new – with 2-methylaminopyridine 70
Kel-F polymers
– chromatography, HPLC, organo-magnesium modified – as column packings 65
Kerogen
– anal. of – by chromatography, gas, pyrolysis, capillary column switching 469
Kerogen-derived acids
– limitations of some esterification techniques in structure analysis of – 83
Kerosenes
– anal. of alkanes, n- in – by capillary GC 273
α-Keto acids
– detmn. of – in natural water 182
– detmn. of oxalic acid and – in urine with cobalt phthalocyanine modified electrodes 290
Keto-aldonic acids
– detmn. of 2-keto-L-gulonic acid, – and aldonic acids in biological materials by HPLC 592
Ketobemidone
– detmn. of – in blood plasma by HPLC with electrochem. detection 197
2-Keto-L-gulonic acid
– detmn. of –, keto-aldonic acids and aldonic acids in biological materials by HPLC 592
Ketones
– detmn. of aldehydes and – by air by HPLC, DNP cartridges for sampling 475
– detmn. of aliphatic – and esters with brillant green by chromatography 78
6-Keto-prostaglandin-$F_1\alpha$
– detmn. of – in urine by radioimmunoassay 595
Khelline
– electrochemical oxidation of – by cyclic voltammetry 588
Kidney stones
– detmn. of uranium in teeth and – by fission track techniques 395

L

Laboratory robotics
– appl. of – in spectrophotometric sample preparation and experimental optimization 70
Laboratory wastes
– destruction of carcinogens in – 479
Laccol
– anal. of long chain phenols, urushiol, –, thitsiol and phenylalkyl catechol compounds in Burmese lac 274
β-Lactams
– chiral stationary phases for chromatographic detmn. of enantiomeric purity and absolute configuration of – 175
Lactate
– detmn. of –, extracorporeal monitoring by amperometric enzyme electrode 484
Lactic acid
– assay for – in lotions by HPLC 288

Lactose
– detmn. of protein, fats and – in human milk 188
Lanthanide minerals
– detmn. of cerium and gadolinium in –, minerals by fluorimetry 384
Lanthanide ores
– detmn. (simult.) of 14 lanthanides and yttrium in – by ICP-AES 178
Lanthanides
– detmn. of – as mixed-ligand complexes by extr. spectrophotometry 577
– detmn. of – impurities in ytterbium oxide by X-ray fluorescence spectrometry 177
– detmn. of – in calcium fluoride by XRF anal. 177
– detmn. of – in glass by NAA 383
– detmn. (simult.) of 14 – and yttrium in lanthanide ores by ICP-AES 178
– extr. of – by a mixture of didocylnaphthalene-sulfonic acid and a crown ether 374
– Gmelin handbook, –, compounds with selenium 566
– quenching behavior of – on the UV fluorecence of uranium(VI) 462
– sepn. of – by sorption on aluminum hydroxide 462
– sepn. of – by synergic extr. with acetylacetone and 1,10-phenanthroline 462
– sepn. of – traces and other metals from uranium by ICP-MS 175
– sepn. preconc. of – and yttrium from geological materials 88
Lanthanum
– detmn. of barium, –, cerium and neodymium in lateritic materials by XRF and NAA 88
– detmn. of – in nuclear fuels by thermal ionization MS 176
– detmn. of – with 2,2′-dipyridyl-2-pyridyl-hydrazone by spectrophotometry 374
– extr. of – and neodymium with ionizable macrocyclic ligands and thenoyltrifluoro-acetone 577
– sepn. of –, cerium and samarium from uranium, comparison of extr. and ion-exchange 72
Lateritic materials
– detmn. of barium, lanthanum, cerium and neodymium in – by XRF and NAA 88
Lead
– anal. of – and cadmium in blood, quality control 647
– anal. of – in blood by application of standard materials and standard reference materials 656
– Cellex-P for preconc. of – and other trace metals from water 477
– complexometric titrations of metals using a – electrodes, ion-selective 164
– detmn. of – and cadmium in biological materials by potentiometric stripping analysis 350
– detmn. of – and cadmium in metals, colored and alloys by AAS 81
– detmn. of – and cadmium in water by spectrometry, atomic absorption, flameless techniques 478
– detmn. of – and methyllead ions in water by AAS 279
– detmn. of – by electrodes, ion-selective, macrocyclic reagents as membrane-active components 573
– detmn. of – by low-temperature luminescence 585
– detmn. of cadmium and – in natural water by sorption-AAS 180
– detmn. of cadmium, copper, – and zinc in biological materials by AAS 395
– detmn. of copper, – and cadmium in high-purity zinc by metal furnace AAS 379
– detmn. of – in blood by AAS 591
Lead
– detmn. of – in environmental samples by graphite furnace AAS 478
– detmn. of – in solution with piezoelectric crystals 73
– detmn. of – in urine by extr. and flow injection/AAS 591
– detmn. of silver, copper, – and cadmium in metals, steel by graphite furnace AAS, coherent forward scattering 380
– detmn. of – traces by spectrometry, atomic fluorescence, laser 63
– detmn. of – with morin by fluorimetry, effect of non-ionic surfactants 73
– detmn. of –, zinc and mercury with 1-phenyl-3-thiobenzoylthiocarbamide by extr. spectrophotometry 375
– detmn. of zinc, cadmium and – by spectrophotometry as Cu morpholine-4-carbodithioate complex 577
– detmn. (simult.) of tin and – by anodic stripping voltammetry 375
– precipitation of – with 2′-mercapto-4-propylacetanilide, comparison with thionalide 73
– preconc. and detmn. of ultratraces of – and bismuth 463
– sepn. of – and transition metals by chromatography, liquid on titanium antimonate 260
– sepn. of – traces from large amounts of zinc, indium, gallium and other elements in reagents on anion-exchange resin 80
– solid-phase electrodes selective to – and cadmium ions 73
Lead(II)
– detmn. of – with EDTMPA by spectrophotometry 375
– extr. of zinc, cadmium and – from HCl media by Amberlite LA-2 hydrochloride 168
– inorganic ion-exchange membrane exhibiting selectivity for – 169
Lead-210
– sepn. of –, bismuth-210 and polonium-210 by deposition on metal foils 585
Lead alloys
– partial matrix reduction with $NaBH_4$ for preconcentration of trace metals from hard – 57
Lead halides
– detmn. of thallium halides and – in filter dusts of cement plants 383
Leadorgano compounds
– behavior of some dialkyl- and trialkyl— using a non-dispersive detector, atomic fluorescence 77
– detmn. of – by differential pulse polarography in dimethyl sulfoxide 466
Lead sulfide
– sorption of mercury on –: RHEED investigation of the Hg-PbS system 358
Least-squares analysis, partial
– optimization in spectrophotometric multicomponent analysis, – 166
Lectins
– , biology, biochemistry, clinical biochemistry, Vol. 5, book 62
Leghemoglobins
– sepn. of – from soybeans root nodules by HPLC 91
Leucine aminopeptidase
– detmn. of – with phenylalanyl-3-thiaphenyl-alanine as substrate 400
Leukocytes
– sepn. of dimethylphosphatidates of alkylacyl glycerophosphocholine in – by HPLC 398
Leukomalachite green
– detmn. of iron by catalytic anal., –/H_2O_2 reaction 378
Leukotrienes
– anal. of – and hydroxyeicosatetraenoic acids in biological materials by HPLC, solid phase extr. 292
Leukotrienes
– detmn. of – in biological fluids by GC/MS 291
Leupeptin
– detmn. of – in blood plasma by competitive binding radioassay 594
Levansucrase
– detection of dextransucrase and – in gel electrophoresis, staining artefacts 596
Levodopa
– detmn. of –, methyldopa and carbidopa in pharmaceutical products by LC 391
Lidocaine
– detmn. of – in blood plasma by ferrocene mediated immunoassay 197
Ligands
– titration, single-point of metal ions and – by change in pH measurements 165
Limit of decision
– , limit of detection and limit of determination of analytical methods 331
Limit of detection
– limit of decision, – and limit of determination of analytical methods 331
Limit of determination
– limit of decision, limit of detection and – of analytical methods 331
Linamarin
– detmn. of – in flax seed by photometry 389
Linoleate oxidation products
– anal. of lipid oxidation products, – by CI-MS 397
Linoleic acid
– enzymatic detmn. of cholesterol, L-amino acids and – with a novel redox indicator system 293
Lipase
– detmn. of free fatty acids for – activity in oils, edible by colorimetry 187
Lipid oxidation products
– anal. of –, linoleate oxidation products by CI-MS 397
Lipids
– anal. of – in marine organisms, sediments and sea water by TLC/FID 388
– detmn. of iodine values of – by bromide ion-selective electrode 92
– microdetmn. of – using TLC and flame ionization detector 486
– sepn. of polar – of chloroplasts by HPLC 104
Lipohydroperoxides
– detmn. of peroxides, organic and – at the nanomole level by kinetic fluorimetry 580
Lipoproteins
– detmn. of – in blood serum by ultracentrifugation 196
Liposomes
– sepn. of –, vesicles and viruses by HPLC 288
Lipoxygenase
– inhibition of – and myeloperoxidase, chemiluminescence by dipyridamole 596
Liquid crystals
– retention of benzene derivatives on – in chromatography, liquid 455
Liquid membranes
– coupled transport across – as anal. preconcentration technique 164
Liquids
– neutral – enzyme electrode based on ion-sensitive field effect transistor 467
Lissamine rhodamine B sulfonylchloride
– sepn. of amino acids by HPLC and TLC with – 194
Lithium
– characteristic behavior of neutral carriers in – electrodes, ion-selective 164
– detmn. of – in blood serum by electrodes, ion-selective 483
– detmn. of – in blood serum by FIA with ion-selective electrode 395
– detmn. of the isotope composition of – by AAS ultimate absorbance-ratio technique 71

Lithium
– neutral carriers for – electrodes, ion-selective 460
– photometry, detmn. of traces of metals, Part IIa, aluminum to –, book 61
– study of – laser-induced ionization yield, spectrometry, laser in air-acetylene flame 568
Liver
– detmn. of bile acids as trimethylsilyl ether derivatives in – cells by GC/MS 488
– detmn. of clofibroyl coenzyme A and clofibric acid in – by HPLC 492
Liver microsomes
– assay of cholesterol 7α-hydroxylase in – by HPLC 398
Local anesthetics
– sepn. of – by HPLC 286
Lotions
– assay for lactic acid in – by HPLC 288
Lubricating oil additives
– anal. of –, metalorgano compounds by MS 84
Lucigenin
– study of – chemiluminescence, improved applications 568
Luminescence quantum counter
– , comparison of differing configurations 370
Lumogallion
– detmn. of niobium with – by fluorometry, enhancement by nonionic micelles 578
Lysine
– detmn. of advanced products of non-enzymatic glycosylation of –, reaction with diazonium salts 194
– detmn. of azo-coupled – in azo proteins by amino acid anal. 195
Lysinoalanine
– detmn. of desmosine, isodesmosine, 5-hydroxylysine, tryptophan, – and amino sugars in proteins and tissues by amino acid anal. 195

M

Macrocyclic ligands
– extr. of lanthanum and neodymium with ionizable – and thenoyltrifluoroacetone 577
Macrodiisocyanate
– detmn. of isocyanate groups in – and polyurethanes by potentiometric titration 85
Macro minerals
– swedish interlaboratory trials on proximates and –, minerals 699
Magnesium
– detmn. of calcium and – in blood plasma electrolyte solution by ion chromatography 289
– detmn. of – in silicates by AAS/flow injection 384
– detmn. of silicon, calcium, – and phosphorus in urine by ICP-ES 395
– detmn. of sulfur, phosphorus, –, silicon and aluminum in washing powders by XRF spectrometry 276
– detmn. of – with nitrophosphonazo-I by spectrophotometry 777
– first derivative spectrophotometry of – with 1-hydroxy-2-carboxyanthraquinone 461
– microanal. of platinum and – in body fluids and brain tissue with cisplatinum 193
Magnesium oxide
– detmn. of boron in – by charged particle activation anal. 584
Magnetic films, ultra-thin
– anal. of rare earth-transition metal – by ICP-AES 178
Main-group elements
– chemistry of –, book 453
Malate dehydrogenase
– detmn. of β-sulfopyruvate, – by spectrophotometry/enzymatic assay 494
Malonaldehyde
– anal. of thiobarbituric acid adducts of – and trans,trans-muconaldehyde by HPLC 193
Mandelic acid enantiomers
– sepn. of – by GC, derivatization methods 434
Manganese
– detection of trace copper, iron and – in cotton by TLC 275
– detmn. of – by catalytic flow injection anal., succinimide dioxime-O_2 reaction 463
– detmn. of – by spectrometry, ICP-AES, discrete nebulisation 579
– detmn. of –, chromium and nickel by AAS, interference by polymeric formations 463
– detmn. of – in alloys with diantipyrylmethane by spectrophotometry 81
– detmn. of – in blood by AAS 395
– detmn. of – in ores by complexometry with thiomalic acid indicator 385
– detmn. of – in silicate rocks by spectrometric microanalysis 156
– detmn. of – in water by titanium(IV) hydroxide coprecipitation and XRF 386
– detmn. of – traces by stripping voltammetry 377
– detmn. of – with 3-phenyl-2-mercapto-propenoic acid by extr. spectrophotometry 377
– detmn. of – with benzohydroxamic acid by extr. spectrophotometry 377
– speciation of – in fresh water by spectrometry, EPR 279
Manganese(II)
– detmn. of – after $NaBiO_3$ oxidation by spectrophotometry 463
– detmn. of – in cadmium selenide by direct non-destructive ESR spectrometry 382
Manganese(IV)
– detmn. of nitrite with – by titration 465
Marine organism
– cadmium induced proteins from – as biological reference materials for environmental analysis 719
Marine organisms
– anal. of lipids in –, sediments and sea water by TLC/FID 388
– detmn. of fatty acids and alcohols in wax esters of – by HPLC 196
– detmn. of hydrocarbons in – by HPLC, TLC and LC 478
– detmn. of platinum and iridium in water, marine sediments and –, isolation as anions on resins 386
– hydride generation AAS of arsenic in marine sediments, – and sea water with in situ conc. 387
Marine plants
– detmn. of nitrogen-15 in – by AAS and OES 184
Marine samples
– detmn. of nucleic acid bases in – by HPLC 388
Marine sediments
– chlorine interference in iodimetric detmn. of sulfur in – 179
– detmn. of organic polluants in – and biological materials, cleanup methods 474
– detmn. of platinum and iridium in water, – and marine organisms, isolation as anions on resins 386
– detmn. of selenium in sea water, – and tissues by hydride generation AAS 181
– hydride generation AAS of arsenic in –, marine organisms and sea water with in situ conc. 387
Marker compounds, biological
– distributions in petroleum geochemistry 83
Mass analyzer, laser microprobe
– investigation of Cu-Ni and Ag-Pd alloys with – (LAMMA) 80
Mass spectral data
– computer-based system for correlation of molecular structures with – 576
Mass spectrometer, thermal ionisation quadrupole
– detmn. of traces of heavy metals in foods with a – 118
Mass spectrometry
– anal. of hydrocarbons, aromatic, alkylbenzenes by –, methane high pressure collisional activation 570
– anal. of large peptides by plasma desorption – glutathione as matrix 485
– anal. of thermally instable natural organic compounds by secondary ion – 163
– and GC data of drugs, poisons and their metabolites, book 565
– atmospheric pressure ionization – with laser-produced ions 570
– chromatography, gas/–, improved library search with ^{13}C-NMR 69
– chromatography, gas/–, linear working range 69
– chromatography, liquid/–, direct liquid introduction interfaces 262
– chromatography, liquid/–, direct liquid introduction 456
– chromatography, liquid/– for structural studies of carbohydrates 79
– chromatography, liquid/thermospray –, ion formation 456
– chromatography, supercritical fluid, coupling with – 263
– detection of nonvolatile species by laser desorption atmospheric pressure – 570
– detmn. of elements in biological materials by SI –, ashed specimens 394
– detmn. of trace metalls in organic materials using ICP source – 163
– effects of vacuum on tetrakis-isocyanide complexes of silver(I) and copper(I), implications for secondary ion – 570
– fast atom bombardement – at various gas-phase basicities 371
– ident. of benzylated guanosines by FAB and collisional activation – 488
– ion intensity and image resolution in secondary ion – 570
– , new ion source for liquid matrix SIMS 371
– nitrogen as carrier gas in chromatography, gas/ – 68
– optimization in ICP – 569
– particle induced desorption – for microscopic small areas 371
– , precision of detmn. 163
– , pulsed laser desorption in supersonic beam MS 370
– secondary ion –, observation of high masses 163
– substituent effects in charge exchange chemical ionization – 570
– thermospray, – in electrochemistry 163
Mass spectrometry, CI
– negativ ion – of isocyanates 228
Mass spectrometry, field desorption
– biodegradation of tensides by – 43
Mass spectrometry, laser
– anal. of hydrocarbons, polycyclic aromatic by – 281
– anal. of organophosphorus pesticides on plant tissues by – 482
– detmn. of carboxcylic acids und amino acids by – 78
– ionization, of chromatography column packing materials 570
– resonance ionization with glow discharge 370
Matrix reduction
– partial – with $NaBH_4$ for preconcentration of trace metals from hard lead alloys 57
Meat
– certification of toxic elements, nutritional elements in –, BCR programme 679
– detmn. of azaarenes in foods, – by GC 188
– detmn. of chloramphenicol in swine muscle – by HPLC 187
Meat powder
– bovine teeth and – as new biological standard reference materials 658

Mefloquine
– detmn. of – in blood plasma by HPLC 296
Melanin
– anal. of fungal – intermediates and related metabolites by HPLC 488
Melatonin
– detmn. of – in urine by HPLC/fluorimetry 296
Membrane electrodes
– detmn. of ephedrine, epinephrine and norepinephrine by new liquid – 191
– ion-selectivity of plasticizers in poly(vinyl-chloride) – 472
– uphill transport – 459
Membranes, electroactive
– simult. evaluation of – on a four-function ISFET 164
Menadione sodium hydrogen sulfite
– detmn. of – and nicotinamine in pharmaceutical products by HPLC 393
β-Mercapto-propanoic acid anilide
– detmn. of cobalt mit – by extr. spectrophotometry 579
2′-Mercapto-4-propylacetanilide
– precipitation of lead with –, comparison with thionalide 73
Mercaptopropyl silica
– chromatography, HPLC on – 571
Mercaptopyrimidines
– detmn. of – by potentiometry and thermometry 271
Mercuric-acetate-substituted phenylsilica phase
– chromatography, liquid on – 425
Mercuriofluoresceinates
– detmn. of sulfide in water by fluorescence quenching of – 182
Mercury
– anal. of – and methylmercury in rain water by cold vapor AAS 510
– detmn. of –, arsenic and selenium in environmental materials by radiochem. NAA 278
– detmn. of – in air by AAS after collection on MnO_2 278
– detmn. of – in biological fluids by cold vapor AAS 591
– detmn. of – in biological materials by cold vapor AAS 395
– detmn. of – in lake water by He-MIP emission spectrometry 181
– detmn. of – in mercuryorgano compounds by spectrophotometry 77
– detmn. of – in work places by AAS and GLC 385
– detmn. of lead, zinc and – with 1-phenyl-3-thiobenzoylthiocarbamide by extr. spectrophotometry 375
– detmn. of pilocarpine by indirect AAS as – 393
– sorption of – on lead sulfide: RHEED investigation of the Hg-PbS system 358
Mercury(I)
– detmn. of – with cacotheline by spectrophotometry 72
Mercury(II)
– detmn. of – and silver by spectrophotometry 72
– detmn. of – and silver with electrodes, ion-selective, dithia crown ethers in the membrane 573
– detmn. of – by catalytic anal., $SbCl_6^+/I^+$ reaction 72
– detmn. of – with iodide and pyronine G by extr. spectrophotometry 462
– formation constnts of some – from anodic polarographic signals 577
– prep. of electrodes, ion-selective, AgI-based membrane for iodide and – 573
Mercury compounds
– detmn. of organic and inorganic – by reversed-phase HPLC after extr. 381
Mercury(II) halides
– anal. of – by reversed-phase ion-pair HPLC 462
Mercuryorgano compounds
– detmn. of mercury in – by spectrophotometry 77
Metal acetylacetonates
– sepn. of – by GC and HPLC 77
Metal borides
– anal. of single crystals of – by ICP-AES 584
Metal complexation
– comparative study of heavy – by fulvic acid 477
Metal complexes
– regularities of luminescence of organo-luminophors based on – 70
Metal compounds, carcinogenic and mutagenic
– , toxicological chemistry, book 367
Metal ions
– fluorescence quenching for measuring complex formation between – and aromatic amino acids 70
– ion-exchange of some – on poly(ethyleneimine) resin 275
– titration, single-point of – and ligands by change in pH measurements 165
Metalloporphyrins
– sepn. of – by HPTLC and HPLC 298
– sepn. of hematoporphyrin and – by HPLC 298
Metallothionein
– detection of – and cadmium-binding proteins in gel electrophoresis 594
– detmn. of – in tissues by radioimmunoassay and cadmium saturation method 297
Metallurgical processing solutions
– detmn. of arsenic(III) and arsenic(V) in – by ion chromatography 176
Metallurgy, nonferrous
– detmn. of rhenium in complex products of – by polarography 82
Metalorgano compounds
– anal. of lubricating oil additives, – by MS 84
– detmn. of metals in – by oxine method after oxygen flask combustion 466
Metal polycomplexonates
– chromatography, gas, – on polymers as sorbents 458
Metals
– anal. of cobalt binder phase in – 176
– anal. of – or conductors, solid by ICP-MS 582
– chromatography, liquid, sepn. of – on chelating stationary phases 572
– complexometric titrations of – using a lead electrodes, ion-selective 164
– detmn. of – as diisobutyldithiocarbamate chelates by GC and LC 171
– detmn. of – in galvanic wastes by TLC on modified cellulose 585
– detmn. of – in metalorgano compounds by oxine method after oxygen flask combustion 466
– detmn. of iron(III) traces in –, water, wine and urine as purpurin complex by spectrophotometry 170
– detmn. of silicon at µg and ng levels in high-purity – by radiochem. NAA 176
– detmn. of silver, copper, lead and cadmium in –, steel by graphite furnace AAS, coherent forward scattering 380
– photometry, detmn. of traces of –, Part IIa, aluminum to lithium, book 61
– sepn. of – as tetraphenylporphyrin complexes by chromatography, HPLC 572
– sepn. of – by chromatography, ligand exchange on tetracycline hydrochloride sorbed on alumina 454
– sepn. of – by chromatography, thin-layer, formic acid containing solvents 266
– sepn. of – by continuous free focusing electrophoresis in stepwise gradient system 572
– sepn. of trace elements from high-purity – by electrolytic dissolution and electrodeposition of the matrix 583
Metals, colored
– detmn. of antimony in – by oscillopolarography 81
– detmn. of lead and cadmium in – and alloys by AAS 81
Metapramine
– detmn. of –, imipramine trimipramine and metabolites in blood plasma by HPLC 198
Metformin
– detmn. of – and phenformin in blood plasma and urine by reversed-phase HPLC 199
Methacrylic acid alkyl esters
– sepn. of arylic acid alkyl esters and – by GC/MS 271
Methamphetamine
– ident. of – enantiomers by HPLC/thermospray MS 590
Methanol
– detmn. of – in blood serum by headspace GC/SIM 395
Methaphetamine
– anal. of the enantiomeric composition of – by LC 590
Methotrexate
– trace measurements of – by adsorptive stripping voltammetry 589
Methotrimeprazine
– detmn. of rhodium(III) with – by spectrophotometry 379
Methoxy groups
– detmn. of – in soils by Zeisel method and GLC 89
1-Methyladenine
– detmn. of –, deoxyadenosine, deoxyadenosine-5′-monophosphate and adenine dinucleotides by DPPA 146
2-Methylaminopyridine
– new Karl Fischer reagent with – 70
Methylarsonate
– liquid-liquid extraction of arsenic(III), arsenic (V), – and dimethylarsinate 382
Methylbiphenyls
– anal. of –, ethylbiphenyls and dimethylbiphenyls in crude oils by LC and GC 272
Methylborate
– detmn. of boron in steel, distillation of – for ICP-AES 80
Methyl-tert.-butylether
– detmn. of alcohols and – in gasoline by GC 470
– detmn. of. – on silica gel by chromatography, liquid 455
5-Methyl-2′-deoxycytidine
– detmn. of – by time-resolved fluoroimmunoassay 399
Methyldopa
– detmn. of levodopa, – and carbidopa in pharmaceutical products by LC 391
Methylene bisthiocyanate
– anal. of preservative-treated timber for (thiocyanomethylthio)benzothiazole and – using HPLC 275
Methyl esters
– anal. of hydroxy fatty acids as – in plant cutin by GC 185
Methylhistidine
– detmn. of 3— in urine by cationic-exchange/colorimetry 102
2-Methyl-5-hydroxy-7-methoxyisoflavone
– detmn. of titanium with – by extr. spectrophotometry 578
Methyllead
– detmn. of lead and – ions in water by AAS 279
Methylmercury
– anal. of mercury and – in rain water by cold vapor AAS 510
Methylmorpholine
– detmn. of N— in air by capillary GC 475

Methylphenidate
– enantioselective GC assay for d,l-threo– in biological fluids 295
Methylsulfone metabolites
– anal. of – of biphenyls, polychlorinated in tissues by capillary GC 297
4-Methylthio-2-hydroxybutyrate
– detmn. of – in urine 193
Methyltin
– detmn. of picogram quantities of – in sediments 274
4-Methylumbelliferyl phosphat
– assay of calmodulin-dependent protein phosphatase with – by spectrofluorimetry 494
Methylviologen
– detmn. of –, paraquat in herbicides by differential pulse polarography 285
Methylxanthines
– detmn. of enprofylline and – in blood serum by HPLC 492
Metoprolol
– sepn. of aminoalcohols, β-blockers, alprenolol, – and propranolol enantiomers by ion-pair chromatography with new chiral counter ion 588
– sepn. of –, propranolol, β-blockers as cyclic carbamates by HPLC 391
Metribucin
– solvent extr. of zenkor – 285
Microcylinder electrode
– hydrodynamic modulation voltammetry with a –, electrodes 459
Microelectrodes, ion-selective
– calcium –, epoxy-based PVC matrix 461
β_2-Microglobulin
– detmn. of – in blood serum by immuno-turbidimetry 195
Microwave absorption
– detmn. of water in crude oils by – 470
Microwave oven
– for the dissolution of geological materials 178
Milk
– detection of cow's – admixture to buffalo's milk by GC 188
– detmn. of 4,4′-diaminodiphenylsulfone in – by LC, automated sample treatment 480
– detmn. of ammonia in wine and – with gas-sensing probe 479
– detmn. of chloride in – by FIA with a dialyzer 480
– detmn. of iodine in – and urine by spectrophotometry, Sandell-Kolthoff reaction 480
– detmn. of nitrite in – by fluorimetry 188
– detmn. of protein, fats and lactose in human – 188
– detmn. of Ro-14-1761, cephalosporins in – and blood plasma of cattle by HPLC 188
– detmn. of tetrachlorodibenzo-p-dioxin in human – by capillary and packed GC/MS 184
– detmn. of zinc in – with 1-(2-quinolylazo)-2,4,5-trihydroxybenzene by spectrophotometry 480
Milk powder
– certification of alflatoxin M_1 in –, BCR programme 679
Milk products
– detmn. of urea in – by automated enzymatic anal. 480
– sepn. of sugars in infant formulas and – by HPLC 187
Milrinone
– anal. of – in blood plasma by HPLC 199
Mineral flotation systems
– detmn. of thioglycolic acid and dithioglycolic acid in – by molecular emission cavity analysis 179
Mineral paint pigments
– anal. of –, pigments in wet chemistry, AAS and ICP 383
Minerals
– detmn. of cerium and gadolinium in lanthanide minerals, – by fluorimetry 384
– detmn. of gases in individual fluid inclusions in natural – by MS 179
– detmn. of iron in wine, foods and – with 5,5-dimethyl-1,2,3-cyclohexanetrione 1,2-dioxime 3-thiosemicarbazone by spectrophotometry 284
– detmn. of ruthenium in – and water by laser spectrometry, after lead probe conc. 88
– detmn. of scandium in – with 2-hydroxy-1-naphthaldehyde-semicarbazone by fluorimetry 384
– swedish interlaboratory trials on proximates and macro minerals, – 699
Mineral water
– charact. of – by HPLC of organic substances 91
– preconc. and detmn. of cadmium in – by AAS 91
Minoxidil
– detmn. of – in blood plasma by HPLC with electrochem. detection 490
Modelling
– and graphic interpretation of response surfaces in chemical anal. 576
Molasses
– sepn. of aconitic acid from – by extr. 284
Molecular emission cavity analysis
– detmn. of arsenic by hydride generation flow-injection analysis and – 73
– detmn. of thioglycolic acid and dithioglycolic acid in mineral flotation systems by – 179
Molecular sieves
– detmn. of the adsorptive capacity of – 86
Molecular structures
– computer-based system for correlation of – with mass spectral data 576
– computer-mediated reduction of spectral properties to – 166
Molluscan muscles
– sepn. of nucleotides in – by ion-pair HPLC 201
Molybdenum
– detmn. of –, chromium and vanadium by ion-pair HPLC based on precolumn chelation with PAR 579
– detmn. of – in biological materials by AAS 484
– detmn. of – in impregnated clay-supported catalysts by AAS 178
– detmn. of – in plant materials by AAS 90
– detmn. of – in steel by differential-pulse polarography, as oxine complex 583
– detmn. of – in steel by spectrophotometry, sepn. of hydroxamic acid complex with Aliquat 336 583
– detmn. of – in steel by spectrophotometry with perazine dimalonate/thiocyanate 80
– detmn. of – in water by polarography 279
– detmn. of – with benzyltriethyl ammonium chloride and thiocyanate by extr. spectrophotometry 579
– sepn. of –, aluminum, cobalt and copper as oxinates by reversed-phase HPLC 170
Molybdenum(VI)
– detmn. of – with 2-benzylideneiminobenzohydroxamic acids by spectrophotometry 463
Molybdenum disilicide
– detmn. of silicon in – and ferrosilicon by potentiometric titration using fluoride sensitive electrode 176
Monazite
– detmn. of thorium in – by spectrophotometry after extr. with Aliquat 336S 88
Monoacylglycerols
– sepn. of – by reversed-phase HPLC 187
Monoalkylglycerol enantiomers
– sepn. of – on chiral phases by HPLC 467
Monobutanoylmorphine
– detmn. of morphine, – and dibutanoylmorphine in biological materials by GC/MS 493
Monoclonal antibodies
– sepn. of abscisic acid enantiomers with – 100
Monoglyceryl-p-amino-benzoate
– detmn. of aminobenzoic acid, p- – and benzocaine in cosmetics by HPLC 394
Monosaccharides
– chromatography of – and disaccharides, review 174
Monozite
– detmn. of thorium in – with o-carboxyphenyl-β-naphthol 473
Morin
– detmn. of lead with – by fluorimetry, effect of non-ionic surfactants 73
Morphine
– detmn. of – by flow injection anal. with chemiluminescence detection 590
– detmn. of –, monobutanoylmorphine and dibutanoylmorphine in biological materials by GC/MS 493
– detmn. of –, morphine-6-glucuronide and normorphine in blood plasma and urine by HPLC with electrochem. detection 200
Morphine-6-glucuronide
– detmn. of morphine, – and normorphine in blood plasma and urine by HPLC with electrochem. detection 200
Trans,trans-muconaldehyde
– anal. of thiobarbituric acid adducts of malonaldehyde and – by HPLC 193
Mucopolysaccharides
– detmn. of – in urine by colorimetry 103
Multicomponent analysis
– optimization in spectrophotometric –, least-squares analysis, partial 166
Multielement analysis
– of ferrotungsten by spectrometry, ICP-AES 583
– of various human tissues by ICP-AES 590
Multiparametric curve fitting
– for analysing spectra, multicomponent 461
Music acid
– detmn. of bismuth in pharmaceutical products with – by spectrophotometry 587
Mutagenicity
– testing in environmental pollution control, book 62
Mycobacteria
– differentiation of catalases in – by gel electrophoresis/staining 398
Mycotoxins
– anal. of trichothecenes, – in human blood by capillary GC/CI-MS 399
– detection of trichothecenes – in human urine by GC/MS 399
– detmn. of aflatoxin B_1, citrinin, ochratoxin A, metabolites of – in urine by HPLC 493
Myeloperoxidase
– inhibition of lipoxygenase and –, chemiluminescence by dipyridamole 596
Myristyl peptides
– ident. of NH_2-terminal – beside peptides by reversed-phase HPLC 102

N

NAD
– assay of – in cells by chromatography 201
6-β-Naltrexol
– detmn. of – and naltrexone in urine by TLC 297
Naltrexone
– detmn. of 6-β-naltrexol and – in urine by TLC 297
Naphtho[8.1.2 abc] coronene
– ident. of – in diesel particulates by reversed-phase 183
1-Naphthol
– detmn. of –, 2-naphthol and oxine with diazotized orthanilic acid by spectrophotometry 269

2-Naphthol
– detmn. of 1-naphthol, – and oxine with diazotized orthanilic acid by spectrophotometry 269
1-(α-Naphthyl)ethylamine
– as basis for chiral phases for chromatography, HPLC 65
National Bureau of Standards
– biological reference materials from US – 609
Neodymium
– detmn. of barium, lanthanum, cerium and – in lateritic materials by XRF and NAA 88
– extr. of lanthanum and – with ionizable macrocyclic ligands and thenoyltrifluoroacetone 577
Nickel
– anal. of binary and ternary mixtures of cobalt, – and copper by kinetic methods based on ligand substitution 378
– detmn. of – by electrodes, ion-selective, dimethylglyoxime paste electrode 378
– detmn. of copper, – and palladium by flow-injection anal. as EDTA complexes 71
– detmn. of copper, –, zinc and chromium(VI) in waste water by ion-exchange methods 386
– detmn. of – in blood plasma by Zeeman-corrected AAS 591
– detmn. of manganese, chromium and – by AAS, interference by polymeric formations 463
– detmn. of – traces by AAS after carbonyl generation 464
– detmn. (simult.) of cobalt, – and iron in polymeric materials by a.c. voltammetry 86
– molecular exclusion chromatography in studies of the vanadium- and –-containing species in residual oils 84
– sepn. of – from other elements by cation-exchange chromatography 378
Nickel(II)
– detmn. of – and cobalt(II) with sodium dodecylxanthate by spectrophotometry 464
Nicotinamide mononucleotide pyrophosphorylase
– detmn. of – in cells and tissues by enzymatic method 202
Nicotinamine
– detmn. of menadione sodium hydrogen sulfite and – in pharmaceutical products by HPLC 393
Nicotine
– detmn. of – and cotinine in blood plasma by GC 493
Nicotine N-oxide
– detmn. of – in urine by GC after thermal conversion 593
Nifedipine
– anal. of dihydropyridines, – in pharmaceutical products and blood plasma by HPLC with electrochem. detection 190
– detmn. of – in blood plasma by capillary GC/ECD 490
Niobium
– detmn. of – with lumogallion by fluorometry, enhancement by nonionic micelles 578
– sepn. of tantalum from – by extr. with di(2-ethylhexyl)phosphoric acid 376
Niobium(V)
– detmn. of – with N,N′-diphenylbenzamidine by extr. spectrophotometry 74
Nitrate
– detmn. of – and chloride in foods by ion chromatography 480
– detmn. of – and sulfate in rain water by capillary electrophoresis 476
– detmn. of – by ion-selective potentiometry, use of interference blank technique 75
– detmn. of, – in forages by ion-selective electrodes 189
– detmn. of –, perchlorate and iodide by voltammetry at a HMDE 376
Nitrate reductase
– detmn. of – by spectrophotometry, new stop reagent 489
Nitrazepam
– detmn. of – in tablets by spectrophotometry 287
Nitric acid
– detmn. of nitrous oxide and – in air, sublimation sources for prep. of test mixtures 475
Nitric oxide
– detection of – by spectrometry, multiphoton ionization 376
Nitriles
– detmn. of aliphatic – by HPLC/fluorimetry 466
Nitrite
– detection of – in flow-injection analysis by detector, pneumatoamperometric 75
– detmn. of – by coulometry after diazotization 169
– detmn. of copper traces in water by catalytic anal. as – 477
– detmn. of – in air and water by spectrophotometry, diazotization of 4-nitroaniline 75
– detmn. of – in milk by fluorimetry 188
– detmn. of – in natural water by flow injection anal./fluorimetry 476
– detmn. of – with manganese(IV) by titration 465
4-Nitroaniline
– detmn. of nitrite in air and water by spectrophotometry, diazotization of – 75
Nitrobenzenes, polychlorinated
– environmental pollution, detmn. of – in Main river fish, after their sepn. and select. fraction 139
4-Nitrobenzoic acid
– sepn. of C_1–C_{12} n-alkyl esters of benzoic acid, – and 3,5-dinitrobenzoic acid by capillary GC 79
Nitrobenzoic acid esters, chlorinated
– anal. of benzoic acid esters, chlorinated and – by GLC 270
Nitro compounds, aromatic
– detmn. of – by coulometric generated chromium(II) 270
Nitrogen
– as carrier gas in chromatography, gas/mass spectrometry 68
– detmn. of – by activation analysis, corrections for carbon and oxygen 580
– detmn. of – in organic materials by emission spectrometry 172
– detmn. of oxygen-containing impurities in – and argon by spectrometry, metastable transfer emission 278
– detmn. of – traces in petroleum fractions by catalytic hydrogenation 470
Nitrogen-15
– detmn. of – in marine plants by AAS and OES 184
Nitrogen bases
– sepn. of – and phenol compounds in coal liquefaction products by GC/UV spectrometry 469
Nitrogen compounds, aromatic
– sepn. of – by HPLC 174
Nitrogen compounds, basic
– detmn. of amines, prim. aromatic and – in coal liquefaction products by GC/MS 272
Nitrogen oxide compounds
– detmn. of – in air by chemiluminescence 475
Nitrogen-sulfur compounds
– detmn. of – by ion chromatography 77
Nitromusks
– sepn. of – by capillary GC 394
Nitroorganics
– detmn. of –, explosives in munitions waste water by reversed-phase HPLC 183
Nitrophosphonazo-I
– detmn. of magnesium with – by spectrophotometry 777
Nitrosamines
– detmn. of cancerogenic – in foods by fluorimetry 93
– detmn. of – in rubber nipples by GC, artifactual formation during the analysis 94
– detmn. of – in rubber pacifiers by GC/TEA 93
– detmn. of. volatile – by capillary GC with thermal energy analyzer 189
Nitrosamines, cyclic
– sepn. of – by HPLC 478
Nitrosodiphenylamine
– detmn. of palladium(II) with p–, non-extraction method 379
Nitrotoluenes
– sepn. of –, toluenes by reversed-phase HPLC, mononitration products 174
Nitrous oxide
– detmn. of – and nitric acid in air, sublimation sources for prep. of test mixtures 475
– detmn. of – in soils by GC with conductivity detector and ECD 89
Noble metals
– detmn. of – by AAS, fire-assay preconc. 378
– new selective pyrazole-containing sorbents for chromatography of – 580
– polyurethane foam as selective sorbent for – 378
Non-metals
– spectrometry, anal. of – introduced from a graphite furnace into a MIP 567
Nordihydroguaiaretic acid
– detmn. of – in biological materials by HPLC 493
Norepinephrine
– detmn. of ephedrine, epinephrine and – by new liquid membrane electrodes 191
Norgestrel
– sepn. of optical isomers of D,L– on cyclodextrines by HPLC 271
Normetanephrine
– detmn. of vanillylmandelic acid and – in urine by HPLC, ethoxy-homologs as standards 290
Normorphine
– detmn. of morphine, morphine-6-glucuronide and – in blood plasma and urine by HPLC with electrochem. detection 200
NTA
– detmn. of copper with EDTA and – by derivative spectrophotometry 461
Nuclear fuels
– detmn. of lanthanum in – by thermal ionization MS 176
Nucleic acid bases
– detmn. of – in marine samples by HPLC 388
Nucleic acids
– detection of proteins or –, new silver staining 486
– detmn. of – with ethidium bromide by continuous flow fluorimetry 399
Nucleoside 3′-phosphoramidites
– anal. of – by FAB-MS 298
Nucleosides
– sepn. of nucleotides and – by HPLC with column switching 398
– sepn. of purine bases, – and nucleotides by reversed-phase and anion-exchange HPLC 201
Nucleotides
– detmn. of ribonucleoside-5′-monophosphates, – in potatoes by LC 186
– sepn. of – and nucleosides by HPLC with column switching 398
– sepn. of – by reversed-phase ion-pair HPLC 398
– sepn. of – in molluscan muscles by ion-pair HPLC 201
– sepn. of purine bases, nucleosides and – by reversed-phase and anion-exchange HPLC 201

Nutrients
– anal. of macro– in foods, Eurofoods trial on between-laboratory variation 690
– detmn. of inorganic elements and organic – in mixed diet foods reference materials 702
– reference materials for quality improving of data on – composition in foods 660
– search of standard reference materials for organic – 696
– transfer of trace elements and – from sewage sludges amended soils to crops 634
– use of laboratory prepared reference materials for traces of – in food analysis 665
Nutritional elements
– certification of toxic elements, – in meat, BCR programme 679
Nutrition research
– standard reference materials for – 618

O

Occupational medicine
– quality control in toxicological analysis of biological materials in the field of –, experiences from round-robins 643
Ochratoxin A
– detmn. of aflatoxin B_1, citrinin, –, metabolites of mycotoxins in urine by HPLC 493
– detmn. of citrinin and – in wheat and barley by HPLC 91
Odorous substances
– detmn. of – in orange extract by GC 283
Oils
– detmn. of biphenyls, polychlorinated in – by GC/ECD 471
– detmn. of cis,cis-methylene interrupted poly-unsaturated fatty acids in fats and – by capillary GC 93
Oils, edible
– anal. of heated – by size-exclusion chromatography 187
– detmn. of free fatty acids for lipase activity in – by colorimetry 187
– detmn. of hydrocarbons, polycyclic aromatic in – by LC with programmed fluorescence detection 481
Oleandomycin
– anal. of – in blood serum and urine by HPLC 295
Olefins
– detmn. of – and sulfones in olefin sulfonation products by HPLC 86
– spectrometry, NMR of – and aromatic compounds with silver-ytterbium binuclear shift reagents 269
Olefin sulfonation products
– detmn. of olefins and sulfones in – by HPLC 86
Olfaction
– as a model for selective chemical sensing 71
Oligodeoxyribonucleotides
– sepn. of – by LC on mixed-ligand stationary phases 488
Oligomers
– sepn. of – by chromatography, size exclusion column packing 472
Oligonucleotides
– sepn. of – and DNA fragments by mixed-mode hydrophobic ion-exchange and HPLC 399
Oligopeptides
– sepn. of –, peptides by reversed-phase TLC 194
Olive oil
– detection of adulterants in – by HPLC 481
Opium alkaloids
– detmn. of nitrogen-containing anticonvulsants and – in blood by GLC/thermoaerosol detector 492
Optical sensor
– for sodium based on ion-pair extr. and fluorescence 167
Optimization
– appl. of laboratory robotics in spectrophotometric sample preparation and experimental – 70
Orange extract
– detmn. of odorous substances in – by GC 283
Orange juice
– detmn. of fatty acids and sterols in – by GLC 283
Ores
– detmn. of iron in – by enthalpimetric FIA 473
– detmn. of manganese in – by complexometry with thiomalic acid indicator 385
– detmn. of platinum, palladium, gold and silver in –, wet chemical analysis of the lead button 87
– detmn. of tungsten in alloys and – by AAS, hydroxide precipitation of interfering metals 81
Organic acids
– anal. of – in wine by ion chromatography 92
– detmn. of – in wine by HPLC as phenacyl esters 284
– sepn. of – by TLC 267
Organic compounds
– adsorption of – on cellulose acetate in aqueous systems, chromatography, HPLC 372
– anal. of thermally instable natural – by secondary ion mass spectrometry 163
– detmn. of chlorine, bromine and sulfur in – by potentiometric titration 173
– detmn. of fluorine, chlorine, bromine, iodine and sulfur in – by IR-ICP-AES 173
– detmn. of fuorine, chlorine and bromine in – by combustion tube method/ion chromatography 267
– detmn. of – in air by GC, preconc. on Carbopack B 179
– detmn. of – in waste water by GC 387
– detmn. of – in water by GC, open stripping system 280
– detmn. of sulfur and phosphorus in – by simult. spectrophotometry 466
– detmn. of sulfur in – with 1,5-diphenyl-carbazide by spectrophotometry 466
– detmn. of sulfur in – with BF_4^- ion-selective electrode 466
– isolation of – from water 387
– sepn. of – by chromatography, liquid on carbon adsorbents 455
Organic compounds, chlorinated
– ident. of volatile –, organic compounds, oxygen-containing by chromatography, gas, pyrolysis 173
Organic compounds, halogenated
– detmn. of – by purge-and-trap GC 173
Organic compounds, oxygen-containing
– adsorbents for – in GC 581
– ident. of volatile organic compounds, chlorinated, – by chromatography, gas, pyrolysis 173
Organic compounds, perhalogenated
– detmn. of – by GC with FID 268
Organic compounds, volatile
– detmn. of – in air, thermally desorbable passive sampler 179
Organic impurities
– detmn. of – in natural water and waste water by chromatography/adsorption trapping 387
– detmn. of – in solvents by GC 471
– information retrieval system for ident. of – from their IR spectra 167
Organic materials
– detmn. of nitrogen in – by emission spectrometry 172
– detmn. of trace metalls in – using ICP source mass spectrometry 163
– detmn. of traces hydroperoxides in – 273
– uncertainties associated with preparation of standard reference materials in – 742
Organic pollutants
– detmn. of – in marine sediments and biological materials, cleanup methods 474
– detection of volatile – in water by GC, continuous monitoring 478
Organic solvents
– leaching behavior of metal-containing species in residual oils with different – 84
– measurement of water content in – 273
Organic substances
– charact. of mineral water by HPLC of – 91
– detmn. of iodine in – using low-temperature ammonia plasma of high-frequency discharge 77
Organoluminophors
– regularities of luminescence of – based on metal complexes 70
Orthanic acid
– detmn. of 1-naphthol, 2-naphthol and oxine with diazotized – by spectrophotometry 269
Osmium
– detmn. of – and iridium with acenaphthene-quinone monothiosemicarbazone by spectro-photometry 379
– detmn. of – traces with 1,2,3-indanetrione monothiosemicarbazone by spectrophotometry 172
– detmn. of ultratrace – in geological materials by laser excitation of precipitates 88
Outliers
– influence of – of comparison in cooperative tests 247
Ovalbumin
– covalent binding of human serum albumin and – by chloramine-T 594
Oxalate
– detmn. of – by flow injection anal., pretreatment of glassy carbon electrode 174
– detmn. of – in urine by flow injection anal. 592
– detmn. of – in urine by ion chromatography 592
– potentiometric and amperometric tissue-based electrodes for – 581
Oxalic acid
– detmn. of – and α-keto acids in urine with cobalt phthalocyanine modified electrodes 290
– detmn. of – in presence of glycolic acid and chloride by spectrophotometry 467
Oxidic materials
– detmn. of europium(III) doping level in – by X-ray spectrometry 178
1-(1′-Oxido-4′-pyridyl)-2-piperidinoethyl-4-nitro-benzoate
– sepn. of anions with – 70
Oxine
– detmn. of 1-naphthol, 2-naphthol and – with diazotized orthanilic acid by spectro-photometry 269
Oxine cellulose
– preconc. of trace elements on – 69
Oxiphen butazone
– sepn. of furosemide, phenylbutazone and – in blood plasma by HPLC 587
7-Oxocholesterol
– detmn. of – in blood serum by isotope dilution/MS 104
Oxolinic acid
– detmn. of – in chicken blood plasma by HPLC 587
Oxygen
– detmn. of – in gases by electrochemical and paramagnetic cells 386
Oxygen demand
– detmn. of chemical – in water, minimising of chloride effect 182
Oxygen-selective detector
– chromatography, gas, – 66
Oxygen uptake
– ruthenium(II)tris(bipyridyl) as luminescent probe for – 395

Oxygen/uranium ratio
– detmn. of – in irradiated uranium dioxide 175
Oxyphenbutazone
– detmn. of acetaminophen, – and salicylamide by spectrophotometry, after nitration 190
– detmn. of – by bromometry with biamperometric endpoint 95
– detmn. of – in pharmaceutical products by HPLC 95
Ozone
– detmn. of – in air with eosin Y by chemiluminescence 277
– rel. stoichiometry of the oxidation of iron(II) by – in aqueous solution 170

P

Palladium
– detmn. of – and iridium with phenyl-trimethyl-pyrimidine-thiol by spectrophotometry after extr. into molten naphthalene 580
– detmn. of copper, nickel and – by flow-injection anal. as EDTA complexes 71
– detmn. of – in catalysts with glyoxal bis (4-phenyl-3-thiosemicarbazone) by spectrophotometry 583
– detmn. of – in presence of chloride by potentiometry titration 171
– detmn. of platinum, –, gold and silver in ores, wet chemical analysis of the lead button 87
– detmn. of platinum, –, rhodium and gold in silicate rocks by electrothermal AAS 87
– detmn. of ruthenium and – by differential spectrophotometry 171
– detmn. of – with n-butylxanthate by spectrophotometry, after adsorption on naphthalene 464
– detmn. of – with $SnCl_2$ and rhodamic -6G by spectrometry after flotation 580
– hydrogen response of – coated suspended gate field effect transistor 374
Palladium(II)
– detmn. of – with 2-amino-3-hydroxypyridine by polarography 379
– detmn. of – with hydroxamic acids by extr. spectrophotometry 580
– detmn. of – with p-nitrosodiphenylamine, non-extraction method 379
– sepn. of – with 1,2,3-benzotriazole by extr. 464
Palm oil
– detmn. of trace metals in – by AAS 481
PAN
– detmn. of indium with – by amperometric titration 375
PAR
– effect of tensides, cationic on the dissociation constants of – 165
Paraffins
– anal. of alkyl-substituted – by GC 269
Paraoxon
– detmn. of parathion and – by polarography 482
Paraquat
– detmn. of – in exposure samples by ELISA 482
– detmn. of – in soils by ELISA 285
– detmn. of methylviologen, – in herbicides by differential pulse polarography 285
– detmn. of – with BiI_3 in the presence of gum arabic by spectrophotometry 285
Parathion
– detmn. of – and paraoxon by polarography 482
Pathogens
– appl. of pattern recognition to ident. of – by fluorimetry, laser 288
Pattern recognition
– appl. of – to ident. of pathogens by fluorimetry, laser 288
– based on fuzzy observations for spectroscopic quality control and chromatographic fingerprinting 167
– computer-assisted structure/taste studies on sulfamates by – 189
Pattern recognition
– evaluation of – methods by criteria based on information theory and Euclidian geometry 167
– multi-inductive component anal., a new approach in – 576
– UNEQ, a disjoint modelling technique for – based on normal distribution 167
Peanut oil
– anal. of triacylglycerols in – by reversed-phase LC 481
Peat
– anal. of – by thermogravimetry 83
Penicillamine
– detmn. of – and acetylcysteine in blood by HPLC with electrochem. detection 491
Penicillin-G-acylase
– detection of –, two new fluorogenic substrates 97
Penicillin V
– detmn. of – in pharmaceutical products by TLC 589
Pentachlorophenol
– detmn. of – in blood serum and urine by GC after pyrolytic ethylation 449
– detmn. of – in wood by HPLC with UV, amperometry and electron capture detector 483
Pepper
– detmn. of carotenoids in red – by overpressured chromatography, thin-layer 481
Peptides
– anal. of – and proteins by plasma desorption MS, sample prep. on cellulose membranes 292
– anal. of large – by plasma desorption mass spectrometry glutathione as matrix 485
– detmn. of amino acids and – by chromatography, liquid with crown ethers mobile phases 101
– detmn. of N-terminal tyrosine containing – by a novel fluorescence reaction 102
– ident. of NH_2-terminal myristyl peptides beside – by reversed-phase HPLC 102
– isolation of – by HPLC on new carboxymethyl resins 485
– sepn. of aspartylpeptides, – by HPLC 195
– sepn. of – by reversed-phase HPLC, effect of modifiers and ion-pair reagents 485
– sepn. of oligopeptides, – by reversed-phase TLC 194
– sepn. of proteins and – by HPLC, new reversed-phase packing material 485
– sepn. of proteins and – by SDS electrophoresis, without urea 103
– sepn. of tyrosine-containing – by HPLC/fluorimetry, precolumn derivatization 102
– thermodynamic parameters for the interaction of lipid-binding – und insulin 397
Perchlorate
– detmn. of – by new liquid-membrane electrode 76
– detmn. of nitrate, – and iodide by voltammetry at a HMDE 376
Perhexiline
– detmn. of – in biological fluids by GC/ECD 490
Periodate
– detmn. of iodate and – at the microgram level by kinetic method 377
– detmn. of tartaric acid with – electrodes, ion-selective 467
Permanganate
– detmn. of cobalt with alkaline – by potentiometric titration 580
Peroxidase
– detection of – in plant materials by direct isoelectric focusing 586
Peroxides
– detmn. of – by fluorimetric flow injection anal. 376
– detmn. of – in precipitation by fluorometry as p-hydroxyphenylacetic acid dimer 277
Peroxides, organic
– detmn. of – and lipohydroperoxides at the nanomole level by kinetic fluorimetry 580
Perphenazine
– detmn. of – in pharmaceutical products by LC 190
Pesticides
– anal. of – by GC, new retention index 483
– anal. of chlorinated – and biphenyls, polychlorinated by automated GC/MS, precision 482
– anal. of organophosphorus – on plant tissues by mass spectrometry, laser 482
– detmn. of. industrial chemicals and – in foods by GC with ECD 189
– detmn. of – in foods by GC 285
– residue analysis of –, book 160
– residue analysis of – in animal products, book 160
Petroleum
– anal. of – by GC with computerized data system 470
– group sepn. of – using supercritical fluids, comparison of supercritical nitrous oxide and carbon dioxide as mobile phase 470
Petroleum fractions
– anal. of hydrocarbons in – by GC, calibration factors 470
– detmn. of nitrogen traces in – by catalytic hydrogenation 470
Petroleum geochemistry
– marker compounds, biological distributions in – 83
Petroleum residues
– anal. of – by gel permeation and field desorption MS 84
Phagosomes
– detmn. of polystyrene latex in – by fluorimetry 288
Pharmaceutical analysis
– expert system for – using HPLC, comparison of UV and amperometric detection 190
– using flow-injection systems 94
Pharmaceutical creams
– detmn. of benzyl alcohol and benzaldehyde in – by HPLC/UV detection 98
Pharmaceutical products
– anal. of acetaminophen, codeine phosphate and sodium benzoate in – by HPLC 95
– anal. of – by spectrophotometry, modified Firordt method for simult. measurements 568
– anal. of dihydropyridines, nifedipine in – and blood plasma by HPLC with electrochem. detection 190
– anal. of monodemethylated metabolites of 6,7- and 7,8-dimethoxycoumarins isomers in – by GC/MS/SIM 393
– anal. of promazine in – by HPLC 96
– batch and flow-injection detmn. of ethylenediamine in – 95
– detmn. of acivicin in – by HPLC 392
– detmn. of bismuth in – with music acid by spectrophotometry 587
– detmn. of bromochlorosalicylanilide and bamipine in – by HPLC 391
– detmn. of butizide and canrenone in – by HPLC 95
– detmn. of butyrophenones in – by HPLC 287
– detmn. of cephapirin in – by HPLC 392
– detmn. of chlorpromazine hydrochloride in tablets, – by MECA 191
– detmn. of clonidine hydrochloride in – by HPLC 587
– detmn. of danazol in – by HPLC 393
– detmn. of dozapinol in – by HPLC 588
– detmn. of estrogens and androgens in – by UV-densitometry 393
– detmn. of estron sulfate in – by HPLC 97
– detmn. of ethionamide and thionicotinamide in – by spectrophotometry 391

Pharmaceutical products
– detmn. of famotidine in – by HPLC 190
– detmn. of flavonoids in – by HPLC 287
– detmn. of food colors in – by LC 590
– detmn. of guanabenz acetate in – by polarography 446
– detmn. of hexamethonium bromide in – by HPLC with UV and IR detection 190
– detmn. of hydroxyurea in – by HPLC 392
– detmn. of isopramide iodide in – by HPLC 589
– detmn. of isoprenaline in – by HPLC 191
– detmn. of levodopa, methyldopa and carbidopa in – by LC 391
– detmn. of menadione sodium hydrogen sulfite and nicotinamine in – by HPLC 393
– detmn. of oxyphenbutazone in – by HPLC 95
– detmn. of penicillin V in – by TLC 589
– detmn. of perphenazine in – by LC 190
– detmn. of polythiazide and reserpine in – by HPLC 391
– detmn. of prazosin and polythiazide in – by HPLC 391
– detmn. of sodium caprylate in – by GC 95
– detmn. of strychnine and yohimbine in – by simult. spectrophotometry 590
– detmn. of sulfanilamide and sulfisoxazole in – by HPTLC 589
– detmn. of temazepam in – by HPLC 588
– detmn. of terbutaline sulfate in – by HPLC 391
– detmn. of terbutaline sulfate in – by spectrophotometry 96
– detmn. of terfenadine in – by HPLC 287
– detmn. of xipamide and clopamide in – by HPLC 96
– ident. of food colors in – and cosmetics by adsorptive stripping voltammetry 590
– ident. of hydrocodone in – by HPLC/IR spectrometry 393
– testing of drug release in – by robotic system 587

Pharmaceutical substances
– detmn. of nitrogen- or phosphorus-containing – by capillary GC 94
– sepn. of – by chromatography, gas with metallic supports 94

PH electrodes
– , electrodes, ion-selective, new neutral carriers 573

Phenacemide
– detmn. of – in biological fluids by HPLC 197

Phenanthraquinone monoximate
– detmn. of platinum with – by spectrophotometry, extr. into molten naphthalene 580

Phenanthrenequinone monoxime
– detmn. of chromium(III) with – by spectrophotometry, molten naphthalene 579

Phenanthrenes
– clomiphene photolysis to assays based on anal. of the derived – 589

Phenformin
– detmn. of metformin and – in blood plasma and urine by reversed-phase HPLC 199

Phenobarbital
– micellar fluorescence of fluorescein-labelled – 96

Phenol compounds
– sepn. of nitrogen bases and – in coal liquefaction products by GC/UV spectrometry 469

Phenolic compounds
– sepn. of – by steam distillation 174

Phenol red
– study of – and m-cresol purple by ^{13}C-NMR spectrometry 575

Phenols
– anal. of long chain –, urushiol, laccol, thitsiol and phenylalkyl catechol compounds in Burmese lac 274
– detection of – in airborne particulates by HPLC and GC/MS 180

Phenothiazines
– assay of – in brain tissue by HPLC 295
– detmn. of – in blood plasma by bromination and HPLC/fluorimetry 295
– detmn. of – with iron perchlorate by FIA/spectrophotometry 287

Phenoxy acid herbicides
– detmn. of –, herbicides in water by solid-phase extr./HPLC 183

Phenylalanine
– detmn. of – and tyrosine in blood spots on filter paper by HPLC 593

Phenylalanyl-3-thiaphenylalanine
– detmn. of leucine aminopeptidase with – as substrate 400

Phenylalkyl catechol compounds
– anal. of long chain phenols, urushiol, laccol, thitsiol and – in Burmese lac 274

Phenylbutazone
– sepn. of furosemide, – and oxiphen butazone in blood plasma by HPLC 587

β-Phenylethylamine
– detmn. of – in tissues and body fluids by GC/ECD using pentafluorobenzenesulfonyl chloride for derivatization 485

3-Phenyl-2-mercaptopropenoic acid
– detmn. of manganese with – by extr. spectrophotometry 377

1-Phenyl-3-thiobenzoylthiocarbamide
– detmn. of lead, zinc and mercury with – by extr. spectrophotometry 375

Phenyl-trimethyl-pyrimidine-thiol
– detmn. of palladium and iridium with – by spectrophotometry after extr. into molten naphthalene 580

Phenytoin
– detmn. of enantiomeric composition of phenolic metabolites of – in urine by HPLC 490

Pheromones
– sepn. of – of bark beetles by HPLC 197

PH measurements
– modification of fiber optic chemical sensors for enhancing fluorescence in – 165
– titration, single-point of metal ions and ligands by change in – 165

Phosphatase
– assay of calmodulin-dependent protein – with 4-methylumbelliferyl phosphat by spectrofluorimetry 494

Phosphatase, alkaline
– detmn. of human placental – in blood serum with monoclonal antibody on paper disk 400

Phosphate
– detmn. of dissolved and adsorbed – in turbid natural water by anodic voltammetry 476
– detmn. of – in saline solutions by spectrophotometry, thermal lens 176
– detmn. of – in water, molybdenum blue adsorbed on Sephadex gel 181
– detmn. of ortho— and total phosphorus in sea water in an autoanalyzer system 354
– detmn. of sulfate, ortho— and triphosphate by FIA with lead-selective electrode 75
– detmn. of trace – in water by spectrophotometry of ion-exchange thin-layer 476
– preconc. of – in water on Zr-loaded carbon, activated 540

Phosphate minerals
– detmn. of scandium in – by ICP-AES 384

Phosphate rocks
– detmn. of uranium in – by substoichiometric isotope dilution 88

Phosphates
– anal. of – with isotachophoresis with an internal standard 382

Phospholipase A_2
– assay for – activity with radioactive substrate 494

Phospholipids
– anal. of – by argentation TLC 293

Phospholipids
– detmn. of – in soybeans by HPLC 92
– sepn. of – by HPLC 293
– sepn. of – by HPLC, dinitrobenzoyl derivatives of diacylglycerols 397

Phosphonates
– detmn. of carboxylates and – in detergents by polarography 276

Phosphorescence, room-temperature
– facile chemical deoxygenation of micellar solutions for – 369
– surface anal. of filter papers used in – 369

5-Phosphoribosyl-4-(N-succinylcarboxamide)-5-aminoimidazole
– detection of – in urine by Bratton-Marshall reaction 296

Phosphoric acid
– detmn. oftrace elements in – by AAS and OES 536
– detmn. of uranium in – by extr. and spectrophotometry 585
– sepn. of strong acids, – by LC 585

Phosphorins
– anal. of free-base – by HPLC 470

Phosphorus
– detmn. of – and boron traces in steel by ICP-AES 380
– detmn. of – in natural water by AAS after coprecipitation with zirconium hydroxide 181
– detmn. of – in soy oil and corn oil by nephelometry 187
– detmn. of ortho-phosphate and total – in sea water in an autoanalyzer system 354
– detmn. of silicon, calcium, magnesium and – in urine by ICP-ES 395
– detmn. of sulfur and – in organic compounds by simult. spectrophotometry 466
– detmn. of sulfur, –, magnesium, silicon and aluminum in washing powders by XRF spectrometry 276
– investigation of – embrittlement in heavy metal alloys by SIMS/TEM 218
– preparation of sewage sludges prior to spectrophotometry detmn. of – 387

Phosphorus compounds
– detmn. of sulfur compounds and – by spectrometry, metastable transfer emission 74

Phosphotungstate
– sepn. of berkelium(IV) by extr. with amines and – 578

Photofragment fluorescence
– for detmn. of gas phase alkali chlorides 177

Photometry
– , detmn. of traces of metals, Part IIa, aluminum to lithium, book 61

Phthalates
– detmn. of – in water and sediments by GC 182

Phthalic anhydride
– detmn. of – in air by GC 475

pH value
– prediction of – of mixtures of solvents with water 574

Physiological samples
– capillary GC micro-assay for pyroglutamic acid. glutamic acid, aspartic acid, glutamine and asparagine in – 291

Phytane
– detmn. of pristane, – and carbon preference index in crude oils by GC 272

Picric acid
– detmn. of epoxides by TLC after – derivatization 274

Piezoelectric crystals
– detmn. of copper(II) using – coated with poly (vinylpyridines) 71
– detmn. of lead in solution with – 73

Piezoelectric detection, liquid-phase
– in immunochemistry 191

Pig adipose tissue
– detmn. of androstenone in – by GC 188

Pigments
– anal. of mineral paint pigments, – in wet chemistry, AAS and ICP 383
Pilocarpine
– detmn. of – by indirect AAS as mercury 393
Piperazines
– detmn. of N-substituted – by TLC and GC 582
Pirenzepine
– detmn. of – in blood plasma by HPLC 197
Plant cutin
– anal. of hydroxy fatty acids as methyl esters in – by GC 185
Plant extracts
– detmn. of capsaicin in – by HPLC 481
– sepn. of amino acids and amide nitrogen from – for ^{15}N emission spectrometry 184
– sepn. of diterpenoid alkaloids in – by centrifugal chromatography 586
Plant materials
– detection of peroxidase in – by direct isoelectric focusing 586
– detmn. of carbon in – by combustion analysis 585
– detmn. of indole-3-acetic acid in – by HPLC 185
– detmn. of molybdenum in – by AAS 90
– detmn. of pyridate in – by HPLC 285
– detmn. of the elemental contamination of – 89
– detmn. of water in – by thermogravimetry and NMR 586
Plants
– air pollution and –, book 61
– anal. of hydroxyacetophenone, p- and hydroxyacetophenone, β-D-glucopyranoside, p- in – by HPLC 185
– detmn. of aldehydes, phenolic in – by HPLC 90
– detmn. of carbonyl compounds in – as hydrazides by HPLC/fluorimetry 90
– detmn. of dicyanamide in – by photometry 389
– detmn. of pyrolizidine alkaloids in – by HPLC 185
– detmn. of sugars in – by HPLC, desalting and freeze-drying sample conc. 389
– detmn. of thioglucosides in – after enzymatic hydrolysis 90
– detmn. of vanadium in – by HPLC 89
– sepn. of aminoethanol, choline and related compounds in – by reversed-phase HPLC 184
– sepn. of betaine esters in – by HPLC 185
– sepn. of carotenoids in – by reversed-phase TLC 90
– sepn. of sterols in – by TLC, HPLC and column chromatography 185
Plant tissues
– anal. of organophosphorus pesticides on – by mass spectrometry, laser 482
Plasmalogens
– detmn. of cholesterol, – and fatty acids in biological materials by TLC-FID on chromarods 595
Plasticizers
– ion-selectivity of – in poly(vinylchloride) membrane electrodes 472
Platinum
– detmn. of – and iridium in water, marine sediments and marine organisms, isolation as anions on resins 386
– detmn. of – in alloys by thermometric titration 82
– detmn. of – in urine by voltammetry 591
– detmn. of –, palladium, gold and silver in ores, wet chemical analysis of the lead button 87
– detmn. of –, palladium, rhodium and gold in silicate rocks by electrothermal AAS 87
– detmn. of trace elements in high-purity – by AAS 561
– detmn. of – traces by differential pulse polarography 172
Platinum
– detmn. of – with phenanthraquinone monoximate by spectrophotometry, extr. into molten naphthalene 580
– Gmelin handbook, –, technology of platinum-group metals 259
– microanal. of – and magnesium in body fluids and brain tissue with cisplatinum 193
Platinum(II)
– detmn. of – and platinum(IV) by controlled-potential coulometry 172
Platinum(IV)
– detmn. of platinum(II) and – by controlled-potential coulometry 172
Platinum complexes
– sepn. of – with cis-1,2-diaminocyclohexane by HPLC 392
Platinum concentrates
– detmn. of iridium in – by voltammetry 82
Platinum metal complexes
– prep. of – with 8-hydroxyquinoline 551
Platinum metals
– preconc., sepn. and detmn. of – by chromatography, liquid, review 171
Poisons
– mass spectrometry and GC data of drugs, – and their metabolites, book 565
Polarography
– , fully automated and computer-controlled, precision and accuracy 770
Polarography, pulse
– , precision of some common methods 459
Polonium-210
– sepn. of lead-210, bismuth-210 and – by deposition on metal foils 585
Poly(dithiocarbamate)
– chelating resins decomposition procedures 85
– sepn. of trace metals by ion exchange on – chelating resins 64
Polyethoxylated alkyl amide
– detmn. of N– in clay supernatant by UV spectrometry, correction for turbid systems 85
Polyethyleneimine-polymethylenepolyphenylene isocyanate
– carboxymethylated – ion-exchange resins preconcentration 275
Poly(ethyleneimine) resin
– ion-exchange of some metal ions on – 275
Poly(ethylene terephthalate)
– study of ion adsorption on polypropylene and – surfaces by MS 276
Polyfluoro-2,2-dialkylglycine
– resolution of underivatized – enantiomers by reversed-phase HPLC 268
Polyglycerol esters
– sepn. of – by capillary SFC, effect of free hydroxy groups 93
Polyhydroxy alkaloids
– sepn. of –, alkaloids by GC 586
Polymeric materials
– detmn. (simult.) of cobalt, nickel and iron in – by a.c. voltammetry 86
Polymers
– anal. of – by evolved gas-IR spectrometry 86
– anal. of – by gel chromatography, detmn. of kinetic parameters 472
– detmn. of anionic high-molecular-weight – by size-exclusion chromatography 472
– detmn. of chlorine traces in – by coulometry 86
– detmn. of dicarboxylic acids in – by GC/MS 275
– detmn. of trace metals in – by AAS with cup-in-tube technique 275
– sepn. of – by LC, adsorption effects 275
– sepn. of – by LC, evaporative light-scattering detection 275
Polymer science
– analysis, reactions, morphology (advances in –, Vol. 71), book 62
Polymer surface structure
– anal. of – by spectrometry, ion scattering 472
Polymer systems
– anal. of protein-polyethylene glycol conjugates in – by fluorimetry 86
Polyoxins
– sepn. of – from fermentation sources by HPLC, UV spectrometry and FAB-MS 392
Polypropylene
– study of ion adsorption on – and poly(ethylene terephthalate) surfaces by MS 276
Polypyrrole
– detection of alcohols by gas sensor with – layer 78
Polypyrrole electrode
– as detector for anions, electroinactive by flow injection analysis 460
Polystyrene latex
– detmn. of – in phagosomes by fluorimetry 288
Polythiazide
– detmn. of – and reserpine in pharmaceutical products by HPLC 391
– detmn. of prazosin and – in pharmaceutical products by HPLC 391
Polythionates
– sepn. of – by ion-pair chromatography 170
Polyurethane foam
– as selective sorbent for noble metals 378
Polyurethanes
– anal. of polyester-base – elastomers by GC after acid fusion 85
– detmn. of isocyanate groups in macrodiisocyanate and – by potentiometric titration 85
Poly(vinylchloride)
– ion-selectivity of plasticizers in – membrane electrodes 472
Poly(4-vinylpyridine) coatings
– comparison of films, inorganic and – as electrode modifiers for flow-injection analysis 574
Polyvinylpyrrolidone
– detmn. of hydrazine in – by HPLC 274
Porphyrins
– detmn. of – in tissues by HPLC 398
Potatoes
– detmn. of ribonucleoside-5′-monophosphates, nucleotides in – by LC 186
Potentiometric stripping analysis
– calibration, single-point in flow – 573
Potentiometric titration
– numerical method of finding – end-points, rational spline functions 166
– study of Schiff bases by – in nitrobenzene solvent 574
Potentiometry, differential scanning
– for very weak bases 164
Praseodymium
– detmn. of – by analogue derivative spectrophotometry 379
Prazosin
– detmn. of – and polythiazide in pharmaceutical products by HPLC 391
Preconcentration
– coupled transport across liquid membranes as anal. – technique 164
Prednisolone
– detmn. of –, prednisone, cortisone and hydrocortisone in blood plasma by solid-phase and liquid-liquid extr. 294
Prednisone
– detmn. of prednisolone, –, cortisone and hydrocortisone in blood plasma by solid-phase and liquid-liquid extr. 294
Preservation
– chemical – of foods, book 366
Preservatives
– detmn. of – in cosmetics by ion-pair reversed-phase HPLC 98

Pristane
– detmn. of –, phytane and carbon preference index in crude oils by GC 272
Probenecid
– detmn. of benzylpenicillin and – in body fluids by HPLC 491
Progabide
– E-Z isomerism of – in polar solvents 391
Progesterone
– detmn. of – by bioluminescent immunoassays 487
Progress streams
– anal. of condensable vapors in – by capillary GC 383
Proline
– detmn. of – and hydroxyproline in biological materials by HPLC 102
Promazine
– anal. of – in pharmaceutical products by HPLC 96
1,2-Propanediol
– detmn. of glycerol, – and triglycerides in blood serum by HPLC and post-column reactor 485
Propham
– detmn. of – by synchronous derivative fluorometry, fluorescamine labeling 285
Propranolol
– detmn. of – with bromothymol blue by extr. spectrophotometry 190
– sepn. of aminoalcohols, β-blockers, alprenolol, metoprolol and – enantiomers by ion-pair chromatography with new chiral counter ion 588
– sepn. of metoprolol, –, β-blockers as cyclic carbamates by HPLC 391
Propyphenazone
– detmn. of –, coffeine and codeine by reversed-phase HPLC 190
Prostaglandins
– detmn. of – in seminal fluid by HPLC/fluorimetry 492
– microanal. of – and ecdysteroids in insects by HPLC/fluorimetry 293
Protein
– detection of electrophoretically resolved – with Eosin Y 292
– detmn. of –, fats and lactose in human milk 188
– detmn. of – in urine, methods review 292
– detmn. of – with bicinchonic acid on microtiter plates 103
– Lowry – assay using an automatic microtiter plate spectrophotometry 102
Proteinases
– detection of – by electrophoresis, after gel filtration 489
– detmn. of – by electrophoresis 489
Protein chemistry
– practical –, handbook 259
Protein-polyethylene glycol conjugates
– anal. of – in polymer systems by fluorimetry 86
Proteins
– anal. of – by circular dichroism spectra 103
– anal. of – by gel electrophoresis, reversible staining and peptide mapping 594
– anal. of peptides and – by plasma desorption MS, sample prep. on cellulose membranes 292
– anal. of polymeric – by two-dimensional polyacrylamide gel electrophoresis 397
– cadmium induced – from marine organism as biological reference materials for environmental analysis 719
– detection of –, fast silver staining of polyacrylamide gels 103
– detection of metallothionein and cadmium-binding – in gel electrophoresis 594
– detection of – or nucleic acids, new silver staining 486
– detection of tryptophan in –, acid hydrolysates 102
Proteins
– detmn. of amino acids in – as dabsyl derivates by reversed-phase HPLC 103
– detmn. of – and sulfobetaine with Folin-phenol reagent by spectrophotometry 397
– detmn. of desmosine, isodesmosine, 5-hydroxylysine, tryptophan, lysinoalanine and amino sugars in – and tissues by amino acid anal. 195
– detmn. of – in galvanic electrolytes by biuret reaction 83
– detmn. of – (ng) with fluorescamine by HPLC 594
– dot-blot assay for heparin-binding – 594
– ident. of – in isoelectric focusing by immunoblotting 486
– quant. of – with Coomassie brillant blue R after gel electrophoresis 103
– sepn. of – and peptides by HPLC, new reversed-phase packing material 485
– sepn. of – and peptides by SDS electrophoresis, without urea 103
– sepn. of – by HPLC, detergent mediated effects 486
– sepn. of – by HPLC, relationship between isocratic and gradient retention times 102
– sepn. of – by reversed-phase LC, optimization 594
– sepn. of hemoglobins and other – by cation-exchange chromatography 298
– silver staining of –, standardized procedure 103
Protein-S-thiolation
– quant. of – by isoelectric focusing 397
Proteoglycans
– anal. of radioactively labeled carbohydrates in – by HPLC 195
– detmn. of ^{35}S-labeled – in tissues by electrophoresis/fluorography 195
Proximates
– swedish interlaboratory trials on – and macro minerals, minerals 699
Purine
– detmn. of – traces by cathodic stripping voltammetry at the HCADE 469
Purine bases
– sepn. of –, nucleosides and nucleotides by reversed-phase and anion-exchange HPLC 201
Purines
– detmn. of – and pyrimidines in foods by LC 480
Purpurin
– detmn. of iron(III) in salicylates with – by extr. spectrophotometry 587
Pyrazole
– new selective –containing sorbents for chromatography of noble metals 580
Pyrazolones
– detmn. of – by bromination and iodometric titration 175
– sepn. of barbiturates and – by HPTLC on precoated plates 95
Pyrene
– detmn. of – in rat tissue, biological materials 157
Pyridate
– detmn. of – in plant materials by HPLC 285
Pyridine analogues
– sepn. and ident. of substiututed – in HI-6 dichloride solutions 85
Pyridinoline
– detmn. of – and 2′-deoxypyridinoline in tissues, collagen by amino acid anal. 201
Pyridoxal
– detmn. of –, pyridoxalphosphate and pyridoxic acid in blood serum by derivative fluorescence spectrometry 595
Pyridoxalphosphate
– detmn. of pyridoxal, – and pyridoxic acid in blood serum by derivative fluorescence spectrometry 595
Pyridoxic acid
– detmn. of pyridoxal, pyridoxalphosphate and – in blood serum by derivative fluorescence spectrometry 595
Pyridylazo-N-oxide-8-hydroxyquinoline
– study of – compounds as indicators 575
2,2′-Pyridylbenzimidazole
– detmn. of sulfur in silicate rocks with – by fluorimetry 385
2-(α-Pyridyl)thioquinalidinamide
– detmn. of copper(II) with – by spectrophotometry 374
Pyrilium salts
– detmn. of – by potentiometry 85
Pyrimidine bases
– sepn. of – by LC, structure and retention 271
Pyrimidines
– detmn. of purines and – in foods by LC 480
1-(2-Pyrimidinyl)piperazine
– anal. of – in blood plasma by capillary GC/MS 294
Pyrocyclidine
– detmn. of – hydrochloride with food colors by spectrophotometry 588
Pyroglutamic acid
– capillary GC micro-assay for –. glutamic acid, aspartic acid, glutamine and asparagine in physiological samples 291
Pyrolizidine alkaloids
– detmn. of – in plants by HPLC 185
Pyronine G
– detmn. of mercury(II) with iodide and – by extr. spectrophotometry 462
Pyrophosphate
– assay for inorganic – with ATP sulfurylase by spectrophotometry 591
Pyrrolizidine alkaloids
– anal. of – by HPLC 393
Pyruvate
– detmn. of – by radioanalysis, improved conditions 396
Pyruvate dehydrogenase
– assay of – in tissues by spectrophotometry 299

Q

Qinghaosu
– detmn. of – in blood plasma by HPLC with precolumn 296
Quality control
– anal. of lead and cadmium in blood, – 647
– pattern recognition based on fuzzy observations for spectroscopic – and chromatographic fingerprinting 167
– program for anal. of trace elements in foods and diet foods by FOA European cooperation 684
Quantum chemistry
– semiempirical methods of –, book 368
1-(2-Quinolylazo)-2,4,5-trihydroxybenzene
– detmn. of zinc in milk with – by spectrophotometry 480
Quinones
– detection of – in wood pulps as H_2O_2 by chemiluminescence 275
Quinoxaline-N-dioxide
– detmn. of – derivatives by adsorptive stripping voltammetry 586

R

Radial intensity
– distribution of – of atom lines and ion lines in spectrometry, ICP, argon 49
β-Radiation
– chromatography, HPLC with on-line – detection 571
Radiation target analysis
– of glycoproteins 595
Radioactivity
– detmn. of – in foods, microwave dehydration method 482

Radioimmunoassay
– immobilized antibodies in saturation analysis, – and competitive protein binding 192
Radionuclides
– detmn. of long-lived – in elemental targets, sepn. and anal. methods 584
Radon
– detmn. of thoron and – gases by α-detectors 585
Rapeseed
– detmn. of glucosinolates in – by X-ray fluorescence of S-content 441
Rare earth elements
– Gmelin handbook, –, part D 4, coordination compounds 62
Reactor tubes
– axial dispersion in coiled – 165
Reagents
– sepn. of lead traces from large amounts of zinc, indium, gallium and other elements in – on anion-exchange resin 80
Reference materials
– anal. of trace elements in biological materials using human body fluids as – 639
– detmn. of inorganic elements and organic nutrients in mixed diet foods – 702
– for quality improving of data on nutrients composition in foods 660
– need for foods – in Asia 673
– need for – for food analysis in Latin America 669
– prep. and certification of biological –, pig liver 705
– prep. and certification of tea leaves as – 622
– prep. of specific – for environmental speciman bank 707
– principles of biomedical – and reference methods 636
– use of laboratory prepared – for traces of nutrients in food analysis 665
Reference methods
– principles of biomedical reference materials and – 636
Refinery emissions
– detmn. of carbon monoxide in –, comparison of methods 474
Regression analysis
– of electrochemical data 373
Regression, least-squares
– example of 2-block predictive partial – with simulated data 373
– partial –, a tutorial 373
Reid vapor pressure
– detmn. of – for stabilized crude oils by GC 272
Reserpine
– detmn. of bromazepam, clopenthixol and – in blood serum by LC/MS 493
– detmn. of polythiazide and – in pharmaceutical products by HPLC 391
Residual oils
– leaching behavior of metal-containing species in – with different organic solvents 84
– molecular exclusion chromatography in studies of the vanadium- and nickel-containing species in – 84
Residue analysis
– of pesticides, book 160
– of pesticides in animal products, book 160
Resins
– detmn. of – and rubber in guayule by modified Soxhlet procedure 184
– sepn. of trace metals by chromatography, ion-exchange, retention of organic ligands on anionic and nonanionic – 261
Response surfaces
– modelling and graphic interpretation of – in chemical anal. 576
Retinals
– sepn. of – by HPLC 189
Retinol
– detmn. of –, α-tocopherol in blood serum by HPLC with UV detection 487
Retinyl esters
– sepn. of – in tissues, animal by HPLC 196
Retrieval system
– information – for ident. of organic impurities from their IR spectra 167
Rhein
– detmn. of – in urine by HPLC 492
Rhenium
– detmn. of – in catalysts by polarography 381
– detmn. of – in complex products of metallurgy, nonferrous by polarography 82
Rhodium
– detmn. of platinum, palladium, – and gold in silicate rocks by electrothermal AAS 87
Rhodium(III)
– detmn. of – with methotrimeprazine by spectrophotometry 379
Rhodium intermetallic compounds
– anal. of –, steel by ICP-AES 380
Rhubarb
– sepn. of anthraquinones in – by HPLC 186
Ribonuclease S-peptide methylesters
– sepn. of – by HPLC/NMR 195
Ribonucleoside-5′-monophosphates
– detmn. of –, nucleotides in potatoes by LC 186
Rifampicin
– detmn. of – with uranyl acetate or thorium nitrate by spectrophotometry 392
TRNA
– sepn. of – by HPLC 202
Ro-14-1761
– detmn. of –, cephalosporins in milk and blood plasma of cattle by HPLC 188
Rocks
– anal. of – by spectrometry, X-ray fluorescence, high-quality data 87
– detmn. of elements in – by ICP-AES, interference by U and Zr 87
– detmn. of sulfur in – by XRF 473
– detmn. of thorium in uranium compounds and – by NAA after isotopic ion-exchange sepn. 175
– detmn. of uranium in – by NAA 384
Rubber
– detmn. of resins and – in guayule by modified Soxhlet procedure 184
Rubber nipples
– detmn. of nitrosamines in – by GC, artifactual formation during the analysis 94
Rubber pacifiers
– detmn. of nitrosamines in – by GC/TEA 93
Ruthenium
– detmn. of – and palladium by differential spectrophotometry 171
– detmn. of – by AES 171
– detmn. of – in minerals and water by laser spectrometry, after lead probe conc. 88
– detmn. of –, new anal. properties of regenerative chemiluminescence of auto-oscillating reactions 171
– detmn. of – traces by addition of Ce(IV) and AAS 171
Ruthenium(III)-allyl thiourea system
– investigation on – 379
Ruthenium sulfates
– TLC behavior of complex – in sulfuric acid solutions 464
Ruthenium(II)tris(bipyridyl)
– as luminescent probe for oxygen uptake 395

S

Saccharides
– sepn. of – by capillary SFC after derivatization 174
Salicylaldehyde-1-phthalazinohydrazone
– as anal. reagent 70
Salicylaldehyde semicarbazone
– detmn. of uranium(VI) with – by spectrophotometry 375
Salicylaldoxime
– detmn. of copper with – by anodic-stripping voltammetry 374
Salicylamide
– detmn. of acetaminophen, oxyphenbutazone and – by spectrophotometry, after nitration 190
Salicylate
– selective sensing system for – 574
Salicylates
– detmn. of iron(III) in – with purpurin by extr. spectrophotometry 587
Saline solutions
– detmn. of phosphate in – by spectrophotometry, thermal lens 176
Saliva
– detmn. of bradykinin in – by HPLC 292
– detmn. of ethanol in blood serum and – using a continuous-flow bioluminescent system 193
Salts
– detmn. of sulfur in alloys and – with triphenyltetrazolium derivatives by spectrophotometry 81
Samarium
– detmn. of – and europium in chlorides and oxides by fluorimetry in micellar systems 177
– sepn. of lanthanum, cerium and – from uranium, comparison of extr. and ion-exchange 72
Sample preparation
– appl. of laboratory robotics in spectrophotometric – and experimental optimization 70
– automated – for spectrometry, X-ray fluorescence, spectrometry, plasma emission and spectrometry, atomic absorption 340
Sample scheduling
– digital simulation – in a routine laboratory for chromatography, liquid 167
Sampling
– collection phases in – of hydrocarbons, polycyclic aromatic at workplace 25
– of trace matter in ambient air, review 5
– statistical methods of assessing – and sample division 373
Sarcodontia setosa
– sepn. of benzoquinones of – by HPLC 390
Saturation analysis
– immobilized antibodies in –, radioimmunoassay and competitive protein binding 192
Saxitoxins
– detmn. of –, toxins in fish by FAB-MS 188
Scandium
– detmn. of – in minerals with 2-hydroxy-1-naphthaldehyde-semicarbazone by fluorimetry 384
– detmn. of – in phosphate minerals by ICP-AES 384
Schiff bases
– study of – by potentiometric titration in nitrobenzene solvent 574
Sediments
– anal. of lipids in marine organisms, – and sea water by TLC/FID 388
– detection of anthropogenic compounds in – and soils by flash evaporation GC/MS 474
– detmn. of carbon in soils and –, review 89
– detmn. of elements and trace elements in silicate materials, soils, –, sludge after HF-digestion in a closed system 135
– detmn. of linear alkylbenzene sulfonates in sewage sludges, soils and – by HPLC 388
– detmn. of phthalates in water and – by GC 182
– detmn. of picogram quantities of methyltin in – 274
– detmn. of thallium in – and natural water 386
– detmn. of tin in – by AAS 387

Sediments
– detmn. of trace metals in –, standard reference materials by graphite furnace AAS 384
– extr. of biphenyls, polychlorinated from –, hydrocarbons, polycyclic aromatic from airborne particulates by SFC 282
Selenate
– detmn. of – in soils by ion chromatography 473
Selenium
– detmn. of antimony and – in water by hydride generation AAS 181
– detmn. of arsenic, – and cadmium in marine biological tissues using STPF Zeeman AAS 388
– detmn. of arsenic, antimony, – and tellurium in silicate rocks and sulfide ores by hydride generation ICP-AES 88
– detmn. of – by hydride generation AAS, interferences from bivalent cations 75
– detmn. of – in biological materials by HPTLC 395
– detmn. of – in blood, blood plasma and blood serum by electrothermal AAS, iron interference 290
– detmn. of – in blood serum by automated electrothermal AAS 290
– detmn. of – in gallium arsenide by polarographic techniques 382
– detmn. of – in sea water, marine sediments and tissues by hydride generation AAS 181
– detmn. of – in steel by flame AAS 177
– detmn. of –(IV) and (VI) by ICP spectrometry/ anion exchange 75
– detmn. of mercury, arsenic and – in environmental materials by radiochem. NAA 278
– detmn. of – traces by spectrophotometry, catalytic reduction of tetranitro blue tetrazolium 75
– detmn. of – traces in biological materials by NAA after dithiocarbamate extr. 484
– Gmelin handbook, lanthanides, compounds with – 566
Selenium(IV)
– detmn. of – with ascorbic acid by titration 377
– detmn. of – with potassium butyl xanthate by extr. spectrophotometry 75
Selenocyanate
– new – selective electrode, ion exchanger based on Urushi matrix-membrane 362
– prep. of electrodes, ion-selective, – ion-sensitive field effect transistor 460
Semiconductor materials
– detmn. of bismuth in – by amperometric titration with mercapto-ethylamino-N,N,S-triacetic acid 82
Seminal fluid
– detmn. of prostaglandins in – by HPLC/ fluorimetry 492
Sensor, fibre-optic fluorescing
– for ammonia 376
Separation
– and spectrophotometry detmn. of elements, book 564
Sepharose 6B
– coupling of hydroxycinnamic acids to – 372
Serotonin
– detmn. of – in biological fluids by extr. and HPLC 485
– detmn. of – in urine by HPLC with electrochem. detection 291
Sewage sludges
– detmn. of linear alkylbenzene sulfonates in –, soils and sediments by HPLC 388
– preparation of – prior to spectrophotometry detmn. of phosphorus 387
– transfer of trace elements and nutrients from – amended soils to crops 634
Shale oils
– anal. of heterocyclic compounds, N- in – by capillary GC 272
Shale oils
– detmn. of ammonia in – retort water 272
Shelf life
– of foods and beverages, book 366
Sialic acids
– ident. of – as O-trimethylsilyl derivatives by EI-MS or CI-MS 397
Sialyl-oligosaccharides
– sepn. of – from α_1-acid glycoprotein by HPLC 104
Silage
– detmn. of free fatty acids in – by GC/ headspace technique 389
Silane
– detmn. of – in air by light-scattering method 278
Silanes
– anal. of – by GC 466
Silica
– chromatography, HPLC on dynamically modified – with cetyltrimethylammonium bromide 65
– fractal surface dimension of – in chromatography, liquid 153
Silica gels
– detmn. of (3-aminopropyl)triethoxysilane on – surface using diffuse reflectance TF-IR spectrometry 162
Silicate materials
– detmn. of elements and trace elements in –, soils, sediments, sludge after HF-digestion in a closed system 135
Silicate rocks
– anal. of – by NAA, AAS and conventional methods 87
– detmn. of arsenic, antimony, selenium and tellurium in – and sulfide ores by hydride generation ICP-AES 88
– detmn. of manganese in – by spectrometric microanalysis 156
– detmn. of platinum, palladium, rhodium and gold in – by electrothermal AAS 87
– detmn. of sulfur in – with 2,2′-pyridylbenz-imidazole by fluorimetry 385
Silicates
– anal. of – by AAS 473
– detmn. of boron in coal ashes and – by ICP-AES, acid dissolution 178
– detmn. of magnesium in – by AAS/flow injection 384
Silicon
– detmn. of – at µg and ng levels in high-purity metals by radiochem. NAA 176
– detmn. of –, calcium, magnesium and phosphorus in urine by ICP-ES 395
– detmn. of – in aluminum by AAS, effect of ethanol 524
– detmn. of – in ferrosilicium by AAS 583
– detmn. of – in iron oxide for ferrite by AAS and molybdenum blue spectrophotometry 381
– detmn. of – in molybdenum disilicide and ferrosilicon by potentiometric titration using fluoride sensitive electrode 176
– detmn. of sulfur, phosphorus, magnesium, – and aluminum in washing powders by XRF spectrometry 276
– detmn. of trace – in iron oxide by distillation-spectrophotometry 562
Silicon carbide
– decomposition method for anal. of silicon nitride and – by XRF 232
– detmn. of trace metals in – by AAS 382
Silicon nitride
– decomposition method for anal. of – and silicon carbide by XRF 232
Siloxanes
– anal. of – by GC, retention rules 466
Silver
– detmn. of – by kinetic fluorimetric method 374
Silver
– detmn. of –, copper, lead and cadmium in metals, steel by graphite furnace AAS, coherent forward scattering 380
– detmn. of cyanide with colloidal – by titration 465
– detmn. of – in geological materials by INAA with a radionuclide neutron source 87
– detmn. of mercury(II) and – by spectro-photometry 72
– detmn. of mercury(II) and – with electrodes, ion-selective, dithia crown ethers in the membrane 573
– detmn. of platinum, palladium, gold and – in ores, wet chemical analysis of the lead button 87
– detmn. of trace – in water by spectro-photometry, Ag-gelatin complex 71
– sepn. of – before AAS using ANS modified Amberlyst A-26 resin 763
Silver(I)
– effects of vacuum on tetrakis-isocyanide complexes of – and copper(I), implications for secondary ion mass spectrometry 570
Silver colloids
– surface-enhanced spectrometry, Raman, use of – 162
Silver error
– detmn. of – in the coulometric titration of acids in various media 164
Silver(I)nitrate
– detmn. of sulfide with – by titration, fibre-optical 547
Silver salts
– detmn. of solubility product constants of some – by FIA potentiometry 71
Silver staining
– detection of proteins, fast – of polyacrylamide gels 103
– detection of proteins or nucleic acids, new – 486
– of proteins, standardized procedure 103
Silver telluride
– study of – by cyclic voltammetry, conditions for electrochem. deposition 382
Simplex optimization
– automation of the optical alignment of a spectrometer, diode-laser by means of – 165
– spectrometry, ICP, comparison of ICP torch-sample introduction configurations using – 63
Sludge
– detmn. of elements and trace elements in silicate materials, soils, sediments, – after HF-digestion in a closed system 135
Sodium
– detmn. of – in biological materials by spectrometry, atomic absorption with Mo-microtube 132
– detmn. of – in salted foods by ion-selective electrodes 480
– optical sensor for – based on ion-pair extr. and fluorescence 167
Sodium benzoate
– anal. of acetaminophen, codeine phosphate and – in pharmaceutical products by HPLC 95
Sodium caprylate
– detmn. of – in pharmaceutical products by GC 95
Softeners
– detection of – in tablet coatings by TLC 288
Soils
– anal. of fulvic acid in – by time-dependent fluorescence depolarization 474
– characteristics of the methods used on certification of standard reference materials of – 89
– detection of anthropogenic compounds in sediments and – by flash evaporation GC/MS 474
– detection of hydrocarbons, halogenated in – by EOX 154

Soils
– detmn. of alkylamines in – by LC, indirect photometric detection as Cu(II) 89
– detmn. of beryllium in – by flameless AAS with Zr-coated graphite tubes 40
– detmn. of carbon in – and sediments, review 89
– detmn. of catalase in – by photometry 586
– detmn. of copper in – with 2-(5-bromo-2-pyridylazo)-5-diethylaminophenol by spectrophotometry 473
– detmn. of elements and trace elements in silicate materials, –, sediments, sludge after HF-digestion in a closed system 135
– detmn. of hydrocarbons, polycyclic aromatic in – by XAD-2 clean-up 89
– detmn. of linear alkylbenzene sulfonates in sewage sludges, – and sediments by HPLC 388
– detmn. of methoxy groups in – by Zeisel method and GLC 89
– detmn. of nitrous oxide in – by GC with conductivity detector and ECD 89
– detmn. of paraquat in – by ELISA 285
– detmn. of readily volatile hydrocarbons, chlorinated in – 33
– detmn. of selenate in – by ion chromatography 473
– detmn. of sulfur in – by HPLC 89
– elements concentration cadasters of Swedish peat bog –, standard reference materials for inorganic environmental chemistry 716
– sepn. of anthracene and benzo[a]pyrene from – by extr. 89
– transfer of trace elements and nutrients from sewage sludges amended – to crops 634
Solid fat content
– detmn. of – in cacao butter by NMR 187
Solid sampling
– detmn. of traces arsenic in biological materials by AAS using miniatur cup for – 53
Solvatochromic measurements
– of solvent polarity, application of ET-30 165
Solvent polarity
– solvatochromic measurements of –, application of ET-30 165
Solvents
– detmn. of organic impurities in – by GC 471
– prediction of pH value of mixtures of – with water 574
Sorbents
– new selective pyrazole-containing – for chromatography of noble metals 580
Soy beans
– detmn. of isoflavones in – by HPLC with amperometric detection 586
– detmn. of phospholipids in – by HPLC 92
– sepn. of leghemoglobins from – root nodules by HPLC 91
Soy oil
– detmn. of phosphorus in – and corn oil by nephelometry 187
Spectoscopy, fluorescence synchronous
– applications of – 64
Spectral data sets
– quant. anal. of two-dimensional chromatographic data sets/– 166
Spectral properties
– computer-mediated reduction of – to molecular structures 166
Spectra, multicomponent
– multiparametric curve fitting for analysing – 461
Spectra, X-ray fluorescence
– expert system for the qual. interpretation of – 167
Spectrochemical analysis, laser
– problems of the selectivity of – 63
Spectrometer, atomic absorption
– simult. high-speed data acquisition from two – coupled to a mini-computer 161
Spectrometer, diode-laser
– automation of the optical alignment of a – by means of simplex optimization 165
Spectrometry
– , anal. of non-metals introduced from a graphite furnace into a MIP 567
– , error propagation, solving matrix equations 166
– , fast algorithm for resolution of difficult spectra 166
γ-Spectrometry
– , micro-robot for sample changing 570
Spectrometry, anti-compton γ-ray
– , detection limits 163
Spectrometry, atomic
– detmn. of trace elements by –, review 495
– proceedings in –, trace analysis, book 159
– reproducible hydride generator for – 162
– simple dilution flask for flame – 567
Spectrometry, atomic absorption
– anal. of solid samples by – 369
– automated sample preparation for spectrometry, X-ray fluorescence, spectrometry, plasma emission and – 340
– a variable dispersion flow-injection manifold for calibration and sample dilution in flame – 161
– , book 159
– detmn. of aluminum by –, thorium-treated L'vov platform 168
– detmn. of lead and cadmium in water by –, flameless techniques 478
– detmn. of sodium in biological materials by – with Mo-microtube 132
– detmn. Sb, As, Bi, Cd, Cu, Pb, Mo, Ag and Zn in geological materials by – 88
– , spatially isothermal graphite furnace 567
– speciation of n-butyltin compounds by – with quartz furnace 274
– spectral interferences and background over-compensation in inverse Zeeman corrected – 567
– standard addition method in – 567
– votalization studies of cadmium compounds by the combined quartz furnace and flame – 177
Spectrometry, atomic absorption, electrothermal
– , absorption conditions and matrix modifications for detmn. several elements following back-extr. of organic aminohalide extracts 162
– aerosol deposition-carbon furnace atomisation for simult. multi-element – 161
– detection limits in real samples using – 70
Spectrometry, atomic emission
– detmn. of elements in alloys by – with hollow cathode plume 80
– , electrothermal vaporization sample introduction in an atmospheric pressure helium micro-wave induced plasma 567
– , MIP sources 161
Spectrometry, atomic fluorescence, laser
– anal. of complex samples by – 64
– detmn. of lead traces by – 63
Spectrometry, EPR
– speciation of manganese in fresh water by – 279
Spectrometry, ESR
– heating of microwave cavities at large modulation amplitudes on quant – 371
Spectrometry, FT-IR
– in chemical analysis, book 258
Spectrometry, ICP
– , comparison of ICP torch-sample introduction configurations using simplex optimization 63
– distribution of electron temperatur in –, argon 59
– distribution of radial intensity of atom lines and ion lines in –, argon 49
– effect of radiofrequency power on laser induced fluorescence and – with an extended-sleeve ICP torch 161
Spectrometry, ICP
– electrolytic prep. of soln. for steel analysis by – 520
– , modification of a commercial electrothermal vaporization system 63
– , spatial emission characteristics and excitation mechanisms in the ICP 567
– with Echelle grating 161
Spectrometry, ICP-AES
– detmn. of elements by –, gaseous sample state 567
– detmn. of manganese by –, discrete nebulisation 579
– low-noise laminar flow torch for –, part 1 63
– multielement analysis of ferrotungsten by – 583
– , plasma matrix effects 63
Spectrometry, ICP-OES
– thermal vaporization for – 63
Spectrometry, ion mobility
– , photoionization in air 569
Spectrometry, ion scattering
– anal. of polymer surface structure by – 472
Spectrometry, IR
– , baseline correction method for second-harmonic detection with diode lasers, tunable 162
– , effect of absorbing matrices on diffuse reflectance spectra 568
Spectrometry, laser
– study of lithium laser-induced ionization yield, – in air-acetylene flame 568
Spectrometry, laser ion mobility
– , beam parameters 369
Spectrometry, luminescence
– elimination of quenching effects in – by phase resolution 369
– synchronous –, optimization in constant energy 568
Spectrometry, metastable transfer emission
– detmn. of sulfur compounds and phosphorus compounds by – 74
Spectrometry, multiphoton ionization
– detection of nitric oxide by – 376
Spectrometry, NIR reflectance
– , repack error, prediction equation 568
Spectrometry, NMR
– of olefins and aromatic compounds with silver-ytterbium binuclear shift reagents 269
Spectrometry, NMR, ^1H
– , solvent suppression 371
Spectrometry, photoacoustic
– detmn. of cobalt (ppt) by extr. and – 579
– , detmn. of copper(II) and iron(III) complexed on modified silica gel 569
Spectrometry, photothermal beam deflection
– , He-Ne laser probe 369
Spectrometry, PIXE
– anal. of biological reference materials by – 736
– , detection limits in thick samples for elements $Z > 26$ 163
Spectrometry, plasma emission
– automated sample preparation for spectrometry, X-ray fluorescence, – and spectrometry, atomic absorption 340
Spectrometry, Raman
– , sputter-deposited silver surfaces for surface-enhanced Raman scattering 369
– surface-enhanced –, use of silver colloids 162
– with fiber optics 162
Spectrometry, supersonic jet
– with high-temperature pulsed nozzle 569
Spectrometry, UV/VIS
– and applications, book 564
Spectrometry, X-ray
– anal. of thin foils by –, absorption correction in EPXMA 370
– detmn. of trace elements by –, PIXE with thick targets 370
– , response characteristics at high count rates 569

Spectrometry, X-ray fluorescence
– anal. of copper alloys by –, empirical correction method 176
– anal. of environmental materials by –, enhancement effect 370
– anal. of rocks by –, high-quality data 87
– anal. of trace metalls in aqueous solutions by – 163
– automated sample preparation for –, spectrometry, plasma emission and spectrometry, atomic absorption 340
– background estimation in energy-dispersive – 166
– detmn. of carbon in steel by –, state of the technique 370
– elemental analysis, –, photon induced fluorescence cross-sections for K shell X-ray lines 64
– elemental analysis using synchroton radiation 64
– , fundamental algorithm 370
– , internal standard method with nonoptimal reference element 569
– , limiting values of matrix effects 163
– , secondary target excitation 370
– , standard-background method 569
– synchrotron –, diffraction interference 569
– , thin glass film standards 64
Spectrophotometry
– anal. of pharmaceutical products by –, modified Firordt method for simult. measurements 568
– , calibration of wavelength and absorbance 162
– first-derivative –, compensative curves 568
– , mathematical treatment of absorbance versus pH graphs of acids, polybasic 568
– separation and – detmn. of elements, book 564
Spectrophotometry, derivative
– , review 162
Spectrophotometry, thermal lens
– chromatography, liquid, – for detection 66
– detmn. of phosphate in saline solutions by – 176
– for detection in microbore chromatography, liquid 454
– , pulsed laser beams for liquid samples 369
– rotorreflected laser beam – 162
Spectroscopic discharges, radiofrequency
– energy coupling for 200-MHz pulsed – 161
Sphingobacterium
– comparison of fluorescent pigments from Flavobacterium and – species 483
Spiroarsoranes
– detmn. of – in blood plasma by HPLC 296
Spline functions
– numerical method of finding potentiometric titration end-points, rational – 166
Spot test
– detection of bismuth with NH_4SCN by capillary – 376
Standard addition
– method in spectrometry, atomic absorption 567
Standard materials
– anal. of lead in blood by application of – and standard reference materials 656
Standard reference materials
– anal. of lead in blood by application of standard materials and – 656
– bovine teeth and meat powder as new biological – 658
– certification improvement of –, IAEA milk powder and animal muscle, for eleven trace elements 723
– characteristics of the methods used on certification of – of soils 89
– detmn. of arsenic and antimony in – via isotopic tracers by radiochemical activation analysis, neutron 733
– detmn. of iridium traces in – by NAA 580
– detmn. of trace metals in sediments, – by graphite furnace AAS 384
Standard reference materials
– elements concentration cadasters of Swedish peat bog soils, – for inorganic environmental chemistry 716
– for agrochemical analysis and food analysis: prep./charact. of bovine muscle powder 627
– for nutrition research 618
– search of – for organic nutrients 696
– uncertainties associated with preparation of – in organic materials 742
Standards
– spectrometry, X-ray fluorescence, thin glass film – 64
Standard solutions
– detmn. of dithionite in – by anaerobic fluorescence titration with flavin mononucleotide 165
K_o standardization
– method in reactor NAA of standard steel and fly ashes 583
Stationary phases
– structure of bonded layer and on – for chromatography 372
Statistical methods
– , handling of data, book 368
Steel
– anal. of rhodium intermetallic compounds, – by ICP-AES 380
– anal. of tungsten in – by glow discharge emission spectrometry 380
– detmn. of boron in –, distillation of methylborate for ICP-AES 80
– detmn. of carbon in – by spectrometry, X-ray fluorescence, state of the technique 370
– detmn. of chromium in – with 3-hydroxyflavone by fluorimetry 80
– detmn. of cobalt in – by spectrophotometry after extr. with microcrystalline benzophenone 378
– detmn. of molybdenum in – by differential-pulse polarography, as oxine complex 583
– detmn. of molybdenum in – by spectrophotometry, sepn. of hydroxamic acid complex with Aliquat 336 583
– detmn. of molybdenum in – by spectrophotometry with perazine dimalonate/thiocyanate 80
– detmn. of phosphorus and boron traces in – by ICP-AES 380
– detmn. of selenium in – by flame AAS 177
– detmn. of silver, copper, lead and cadmium in metals, – by graphite furnace AAS, coherent forward scattering 380
– detmn. of trace metals in iron and – by multielement extr. and AAS 380
– detmn. of vanadium(V) in – and titanium alloys by extr. spectrophotometry 177
– electrolytic prep. of soln. for – analysis by spectrometry, ICP 520
– K_o standardization method in reactor NAA of standard – and fly ashes 583
Sterigmatocystin
– detmn. of – in feeds by HPLC with column switching 91
Steroids
– anal. of – and flavonoid glycosides by FAB and tandem MS 486
– design of a PROLOG-based expert system for planning sepn. of – by HPLC 104
– sepn. of – with β-crotonate side chain by reversed-phase HPLC 486
Sterols
– detmn. of fatty acids and – in orange juice by GLC 283
– detmn. of – in fats by HPLC 93
– sepn. of – by chromatography, HPLC on tomatine-bonded silica gel 293
– sepn. of – in plants by TLC, HPLC and column chromatography 185
Storage of materials
– , robust resistant regression method for personal monitor validation of trapped materials 576
Streptavidin
– detmn. of biotin, avidin and – by enzyme assay 481
Stripping analysis
– , principles, instrumentation and applications, book 61
Strontium
– detmn. of – in bones by AES 289
Strontium-89
– detmn. of strontium-90 and – by Cerenkov spectroscopy 175
Strontium-90
– detmn. of – and strontium-89 by Cerenkov spectroscopy 175
– detmn. of – in water as yttrium-90, sepn. by extr. and coprecipitation 279
Structure analysis
– limitations of some esterification techniques in – of kerogen-derived acids 83
Structure/taste studies
– computer-assisted – on sulfamates by pattern recognition 189
Strychnine
– detmn. of – and yohimbine in pharmaceutical products by simult. spectrophotometry 590
Styrene
– detmn. of – in biological materials by HPLC 100
Styrene oligomers
– LC of – on silica gel 275
Sucrose
– detmn. of – and fructose in biological materials by TLC and video densitometry 484
Sudexanox
– detmn. of – in blood plasma by HPLC 491
Sugar acids
– detmn. of sugar phosphates and – by HPLC, oxidation of glucose-1-phosphate 104
Sugar cane liquefaction products
– sepn. of – by HPLC 184
Sugar phosphates
– detmn. of – and sugar acids by HPLC, oxidation of glucose-1-phosphate 104
Sugars
– detmn. of glucose in – by HPLC 586
– detmn. of – in plants by HPLC, desalting and freeze-drying sample conc. 389
– sepn. of – in infant formulas and milk products by HPLC 187
Sulfa drugs
– anal. of – by spectrophotometry after diazotation 589
Sulfamates
– computer-assisted structure/taste studies on – by pattern recognition 189
Sulfanilamide
– detmn. of – and sulfisoxazole in pharmaceutical products by HPTLC 589
Sulfanilic acid
– detmn. of indole with diazotised – by spectrophotometry 175
Sulfate
– anal. of – in complex carbohydrates by ion chromatography 591
– detmn. of nitrate and – in rain water by capillary electrophoresis 476
– detmn. of –, on-line monitoring by reversed FIA 754
– detmn. of –, ortho-phosphate and triphosphate by FIA with lead-selective electrode 75
– detmn. of sulfur dioxide and – in air, selective simultaneous filter collection 475
Sulfathiazole
– detection of – in honey by anion-exchange tube 92

Sulfide
– detmn. of – by N,N-dimethyl-p-phenylene-diamine immobilized on cation exchanger in optical sensor 465
– detmn. of – in natural water by thermometric titration 280
– detmn. of – in water by fluorescence quenching of mercuriofluoresceinates 182
– detmn. of – in water by stripping voltammetry, with open-circuit preconc. 476
– detmn. of microquantities of elemental and – sulfur by chemiluminescence 74
– detmn. of –, sulfite and thiosulfate in technical water solutions by polarography 83
– detmn. of thiol flotation collectors and – in water by differential pulse polarography 471
– detmn. of – with silver(I)nitrate by titration, fibre-optical 547
– flow-injection analysis of – by precipitation with cadmium ions and detection by AAS 170
– selectivity of – electrodes, ion-selective 75
Sulfide ores
– detmn. of arsenic, antimony, selenium and tellurium in silicate rocks and – by hydride generation ICP-AES 88
Sulfisoxazole
– detmn. of sulfanilamide and – in pharmaceutical products by HPTLC 589
Sulfite
– detmn. of – in corn products, comparison of methods 92
– detmn. of – in foods by flow-injection anal. 92
– detmn. of – in foods by ion chromatography 92
– detmn. of – in foods, reevaluation of Monier-Williams method 92
– detmn. of sulfide, – and thiosulfate in technical water solutions by polarography 83
– detmn. of –, sulfur dioxide by indirect spectrophotometry, reduction of iron(III) 376
Sulfobetaine
– detmn. of proteins and – with Folin-phenol reagent by spectrophotometry 397
Sulfonamides
– detmn. of – by catalytic thermometric titration 391
– detmn. of – by HPTLC 191
– detmn. of – in foods by HPLC and GC 187
– visualization of – on TLC plates using π-acceptors as spray reagent 191
Sulfones
– detmn. of olefins and – in olefin sulfonation products by HPLC 86
β-Sulfopyruvate
– detmn. of –, malate dehydrogenase by spectrophotometry/enzymatic assay 494
Sulfur
– chlorine interference in iodimetric detmn. of – in marine sediments 179
– detmn. of – and phosphorus in organic compounds by simult. spectrophotometry 466
– detmn. of chlorine, bromine and – in organic compounds by potentiometric titration 173
– detmn. of fluorine, chlorine, bromine, iodine and – in organic compounds by IR-ICP-AES 173
– detmn. of – in alloys and salts with triphenyltetrazolium derivatives by spectrophotometry 81
– detmn. of – in biological materials, comparison of XRF and combustion-IR methods 289
– detmn. of – in iron and iron alloys by isotope dilution spark source MS 81
– detmn. of – in organic compounds with 1,5-diphenylcarbazide by spectrophotometry 466
– detmn. of – in organic compounds with BF_4^- ion-selective electrode 466
– detmn. of – in rocks by XRF 473
– detmn. of – in silicate rocks with 2,2′-pyridylbenzimidazole by fluorimetry 385
– detmn. of – in soils by HPLC 89
Sulfur
– detmn. of microquantities of elemental and sulfide – by chemiluminescence 74
– detmn. of –, phosphorus, magnesium, silicon and aluminum in washing powders by XRF spectrometry 276
– detmn. of total – conc. in tissues by ICP-AES 289
– detmn. of total – in caustic by ion chromatography 82
– detmn. of total – in copper metallurgy materials by combustion in oxygen-bomb calorimeter 584
Sulfur compounds
– detmn. of – and phosphorus compounds by spectrometry, metastable transfer emission 74
– ident. of – in mixtures by computer-aided GC 581
Sulfur compounds, chiral
– sepn. of – by HPLC on chiral phase 267
Sulfur dioxide
– conductometric sensor for ppb – in air 385
– detmn. of – and sulfate in air, selective simultaneous filter collection 475
– detmn. of – in air, cycloaddition to 1,2-dimethylenecyclohexane 385
– detmn. of sulfite, – by indirect spectrophotometry, reduction of iron(III) 376
Sulfur gases
– anal. of gases containing – by GC, control of desulfurization 278
– detmn. of – in air by capillary GC, water effects 386
– detmn. of – in air, collection on metal foils 277
– detmn. of reduced – in antarctic lakes and sea water by GC after solid adsorbent preconc. 280
Sulfur hexafluoride
– detmn. of impurities in – by GC/MS 585
Sulfur homocycles
– sepn. of – by HPLC 543
Sulfurorgano compounds
– detection of – in HPLC by chemiluminescence detector 172
– detmn. of divalent – by induced iodine-azide reaction 172
– mineralization of – by fusion with molten alkali 267
Supercritical fluids
– group sepn. of petroleum using –, comparison of supercritical nitrous oxide and carbon dioxide as mobile phase 470
Superoxide dismutase
– detmn. of – in tissues by spectrophotometry 400
Surfactants
– titration of organic cations, – and alkaloids by amphimetry with electrochem. indication 123
Surfactants, cationic
– detmn. of – in clay minerals 155
Surfactants, ionic
– micellar chromatography, liquid, adsorption isotherms of two – on 5 stationary phases 372
Surfactants, non-ionic
– detmn. of – in aqueous solutions, industrial effluents by photometry 276
– detmn. of – in water and waste water by AAS 281
– detmn. of – using ion-selective electrodes 87
Swine tissues
– detmn. of furazolidone in – and urine by HPLC after Extrelut-1 extr. 188
Synchroton radiation
– spectrometry, X-ray fluorescence elemental analysis using – 64

T

Tablet coatings
– detection of softeners in – by TLC 288
Tablets
– detmn. of chlorpromazine hydrochloride in –, pharmaceutical products by MECA 191
Tablets
– detmn. of nitrazepam in – by spectrophotometry 287
Tantalum
– detmn. of – using hexafluorotantalate electrodes, ion-selective 74
– sepn. of – from niobium by extr. with di(2-ethylhexyl)phosphoric acid 376
Tartaric acid
– detmn. of – in wine by indirect polarography 284
– detmn. of – in wine with vanadate by FIA 479
– detmn. of – with periodate electrodes, ion-selective 467
Tea
– detmn. of theaflavins in – with flavognost by extr. spectrophotometry 93
Tea leaves
– prep. and certification of – as reference materials 622
Technetium
– sepn. of – from uranium by extr. with crown ethers and cryptands 176
Technetium hydroxyethylidene diphosphonate complexes
– sepn. of – by HPLC 377
^{99m}Technetium methylene diphosphonate
– anal. of – by reversed-phase HPLC 579
Technical mixtures
– identification of biphenyls, polychlorinated congeners in – and environmental samples by HRGC-ECD/HRGC-MSD 253
Technical products
– detmn. of trichlorfon in biological materials and – by GC after derivatization 241
Teeth
– detmn. of uranium in – and kidney stones by fission track techniques 395
Tellurium
– detmn. of arsenic, antimony, selenium and – in silicate rocks and sulfide ores by hydride generation ICP-AES 88
– detmn. of – in gallium by anodic stripping voltammetry 80
– detmn. of –, zinc and cadmium in indium antimonide crystals by voltammetry 82
Temazepam
– detmn. of – in pharmaceutical products by HPLC 588
Tenax sampling
– artefact formation during – of hydrocarbons, polycyclic aromatic from environmental samples 183
Tensammetry
– , with the bubble-electrode in a flow-through system 774
Tensides
– biodegradation of – by mass spectrometry, field desorption 43
– charact. of ethylene oxide/tert. octylphenol condensates, – by UV and IR spectrometry 472
Tensides, cationic
– effect of – on the dissociation constants of PAR 165
Terbutaline sulfate
– detmn. of – in pharmaceutical products by HPLC 391
– detmn. of – in pharmaceutical products by spectrophotometry 96
Terfenadine
– detmn. of – in pharmaceutical products by HPLC 287
Terpenoic hydrocarbons
– detmn. of enantiomeric purity of – by GC on α-cyclodextrin phases 582
Testosterone sulfate
– extr. and detmn. of – from blood plasma 58
Tetrachlorodibenzo-p-dioxin
– detmn. of – in human milk by capillary and packed GC/MS 184

Tetrachlorodibenzo-p-dioxin
– detmn. of – in tissues, automated extr. and enrichment 297
– detmn. of – in tissues by GC/MS 297
Tetrachloromethane
– detmn. of butyl chloride and – in polymerization catalysts production by GC 584
Tetracycline hydrochloride
– sepn. of metals by chromatography, ligand exchange on – sorbed on alumina 454
Tetracyclines
– sepn. of – by HPLC 97
Tetradifon
– detmn. of dicofol, fenson and – in fish and water by GC 286
Tetraethyllead
– detmn. of – and tetramethyllead in gasoline by HPLC, detection at Hg electrodes 85
Tetrahydro-1,5-benzodiazepines
– sepn. of tetrahydro-1,5-benzothiazepines and – by HPLC 191
Tetrahydro-1,5-benzothiazepines
– sepn. of – and tetrahydro-1,5-benzodiazepines by HPLC 191
Δ^9-Tetrahydrocannabinol
– detmn. of – metabolites in blood plasma and urine by GC/MS and EMIT 493
Tetramethyllead
– detmn. of tetraethyllead and – in gasoline by HPLC, detection at Hg electrodes 85
Tetramethyltin
– ident. of impurity components in – by GC and MS 85
Tetramines, cyclic
– complex formation of ammonium ions in water with – using MICMAC 169
Tetraphenylporphyrin complexes
– sepn. of metals as – by chromatography, HPLC 572
Tetrapyrroles
– sepn. of – from biological materials by HPLC 297
Thallium
– detmn. of – in sediments and natural water 386
Thallium(III)
– detmn. of – and germanium(IV) with chloro-substituted hydroxamic acids by extr. spectrophotometry 463
Thallium halides
– detmn. of – and lead halides in filter dusts of cement plants 383
Theaflavins
– detmn. of – in tea with flavognost by extr. spectrophotometry 93
Thenoyltrifluoroacetone
– extr. of lanthanum and neodymium with ionizable macrocyclic ligands and – 577
Thermometric titration
– detmn. of sulfonamides by catalytic – 391
Thermospray
– , mass spectrometry in electrochemistry 163
Thiabendazole
– detmn. of – in citrus fruits by polarography 283
Thiacetarsamide
– anal. of – by reversed-phase LC 390
Thiazolylazoaminophenol derivatives
– detmn. of iron in water with – by spectrophotometry 478
1-(2′-Thiazolylazo)-2-naphthol
– detmn. of uranium(VI) with – by spectrophotometry, stabilizer Triton X-100 578
Thiobarbituric acid adducts
– anal. of – of malonaldehyde and trans,trans-muconaldehyde by HPLC 193
Thiobenzamides
– detmn. of – by HPLC with UV and electrochem. detection 392
(Thiocyanomethylthio)benzothiazole
– anal. of preservative-treated timber for – and methylene bisthiocyanate using HPLC 275
Thioesters
– anal. of biological thiols in disulfides and – 193
Thioglucosides
– detmn. of – in plants after enzymatic hydrolysis 90
Thioglycolic acid
– detmn. of – and dithioglycolic acid in mineral flotation systems by molecular emission cavity analysis 179
Thiolactams
– detmn. of – with piric acid and silver by extr. spectrophotometry 271
Thiol flotation collectors
– detmn. of – and sulfide in water by differential pulse polarography 471
Thiols
– anal. of biological – in disulfides and thioesters 193
– detmn. of – by HPLC, postcolumn solid-phase derivatization 465
– detmn. of – in cells by fluorimetry 193
– nitroprusside-sulfhydryl test for aromatic – 270
Thiomalic acid
– detmn. of manganese in ores by complexometry with – indicator 385
Thionalide
– precipitation of lead with 2′-mercapto-4-propyl-acetanilide, comparison with – 73
Thionicotinamide
– detmn. of ethionamide and – in pharmaceutical products by spectrophotometry 391
Thioridazine
– detmn. of chlorpromazine and – by differential pulse voltammetry 96
Thiosulfate
– detmn. of sulfide, sulfite and – in technical water solutions by polarography 83
– iodometry, primary standards for – standardisation 574
Thiourea
– detmn. of – in aqueous solution in presence of SO_2 by Raman spectrometry 274
– detmn. of – with 3,5-dinitrosalicylic acid by electrodes, ion-selective 581
Thitsiol
– anal. of long chain phenols, urushiol, laccol, – and phenylalkyl catechol compounds in Burmese lac 274
Thiuram disulfide
– detmn. of trace copper by spectrophotometry, preconc. with – 577
Thorium
– detmn. of – in monazite by spectrophotometry after extr. with Aliquat 336S 88
– detmn. of – in monozite with o-carboxyphenyl-β-naphthol 473
– detmn. of – in uranium compounds and rocks by NAA after isotopic ion-exchange sepn. 175
– detmn. of – traces by polarography 169
– Gmelin handbook, –, the element 366
– sepn. of uranium and – by extr. with dicyclo-hexano-18-crown-6 578
– sepn. of uranium from iron and – by extr. with tributylphosphate 578
– ternary – complexes with some triphenyl-methane reagents and cationic surfactants 375
Thorium(IV)
– complex formation between –, alizarin maroon and thiosalicylic acid 375
Thoron
– detmn. of – and radon gases by α-detectors 585
Thymidine kinase
– detmn. of – bound to ion-exchange paper 400
Thymosin β_4
– detmn. of – in tissues by HPLC 292
Thyroid hormones
– detmn. of – in blood serum by HPLC, surfactant mediated gradient elution 487
Thyroid-stimulating hormone
– sandwich enzyme immunoassay for human – (hTSH) in blood serum 99
Tianeptine
– detmn. of – in blood plasma, urine and tissues by HPLC 491
Tiapride
– detmn. of – in blood plasma by HPLC 198
Timber
– anal. of preservative-treated – for (thiocyano-methylthio)benzothiazole and methylene bisthiocyanate using HPLC 275
Tin
– detmn. of bismuth and – in tungsten concentrates by spectrometry 81
– detmn. of fluoride and – in fluoride-doped tin oxide films on glass 584
– detmn. of – in sediments by AAS 387
– detmn. of – in the ng/g range by differential pulse polarography 463
– detmn. (simult.) of – and lead by anodic stripping voltammetry 375
Tin(IV)
– detmn. of – by extr. of the ternary tin/iodide/5,7-dichloro-8-quinolinol complex 169
Tin oxide
– detmn. of fluoride and tin in fluoride-doped – films on glass 584
Tin-oxygen compounds
– Gmelin handbook, – 453
Tiron
– detmn. (simult.) of iron(II) and iron(III) in aqueous solution by kinetic spectrophotometry with – 170
Tissue, animal
– detmn. of copper(II) in – by chemiluminescence 192
Tissues
– anal. of methylsulfone metabolites of biphenyls, polychlorinated in – by capillary GC 297
– assay of GTP cyclohydrolase I in – by radio-immunoassay 299
– assay of pyruvate dehydrogenase in – by spectrophotometry 299
– detmn. of ^{35}S-labeled proteoglycans in – by electrophoresis/fluorography 195
– detmn. of β-phenylethylamine in – and body fluids by GC/ECD using pentafluorobenzene-sulfonyl chloride for derivatization 485
– detmn. of acyl-coenzyme A esters in – by HPLC 202
– detmn. of desmosine, isodesmosine, 5-hydroxy-lysine, tryptophan, lysinoalanine and amino sugars in proteins and – by amino acid anal. 195
– detmn. of dolichyl phosphates in – by HPLC 196
– detmn. of metallothionein in – by radioimmuno-assay and cadmium saturation method 297
– detmn. of nicotinamide mononucleotide pyro-phosphorylase in cells and – by enzymatic method 202
– detmn. of porphyrins in – by HPLC 398
– detmn. of pyridinoline and 2′-deoxy-pyridinoline in –, collagen by amino acid anal. 201
– detmn. of S-2-(3-aminopropylamino)-ethanethiol in blood and – by LC 201
– detmn. of selenium in sea water, marine sediments and – by hydride generation AAS 181
– detmn. of superoxide dismutase in – by spectro-photometry 400
– detmn. of tetrachlorodibenzo-p-dioxin in –, automated extr. and enrichment 297
– detmn. of tetrachlorodibenzo-p-dioxin in – by GC/MS 297
– detmn. of thymosin β_4 in – by HPLC 292

Tissues
– detmn. of tianeptine in blood plasma, urine and – by HPLC 491
– detmn. of total sulfur conc. in – by ICP-AES 289
– multielement analysis of various human – by ICP-AES 590
– profiling of body fluids and – 98
Tissues, animal
– detmn. of 2-aminofluorene in –, cells by HPLC 100
– detmn. of adenosine monophosphate in – with muscle deaminase by enzymatic anal. 399
– detmn. of copper and zinc in – by AAS after acid extraction 192
– detmn. of cysteic acid in – by GC 101
– detmn. of cysteine sulfinic acid in – by GC 101
– sepn. of retinyl esters in – by HPLC 196
Titanium
– detmn. of – with 2-methyl-5-hydroxy-7-methoxyisoflavone by extr. spectrophotometry 578
– oxidimetric detmn. of –(II,III) in presence of fluoride 83
Titanium alloys
– detmn. of vanadium(V) in steel and – by extr. spectrophotometry 177
Titanium antimonate
– sepn. of lead and transition metals by chromatography, liquid on – 260
Titration, fibre-optical
– detmn. of sulfide with silver(I)nitrate by – 547
Titrations
– fibre-optic – of aluminum with DCTA 577
Titration, single-point
– of metal ions and ligands by change in pH measurements 165
α-Tocopherol
– detmn. of retinol, – in blood serum by HPLC with UV detection 487
Tocopherols
– detmn. of –, ubiquinols and ubiquinones in biological samples by HPLC with UV detection 487
Toluenes
– sepn. of nitrotoluenes, – by reversed-phase HPLC, mononitration products 174
Toluic acid
– fluorescence study of isomers of – and anisic acid 582
Topoisomerases
– detmn. of – by decatenation assay 596
Toxic elements
– certification of –, nutritional elements in meat, BCR programme 679
Toxicological analysis
– quality control in – of biological materials in the field of occupational medicine, experiences from round-robins 643
Toxicological chemistry
– metal compounds, carcinogenic and mutagenic, –, book 367
Toxins
– detmn. of saxitoxins, – in fish by FAB-MS 188
Trace analysis
– by chromatography, ion-pair with injection generated gradient 64
– by microbore chromatography, HPLC 454
– proceedings in spectrometry, atomic, –, book 159
Trace elements
– anal. of – in biological materials using human body fluids as reference materials 639
– anal. of – in water, speciation by electrochem. techniques, review 476
– biological reference materials for – analysis, survey and evaluation 601
– certification improvement of standard reference materials, IAEA milk powder and animal muscle, for eleven – 723
Trace elements
– detmn. of – by spectrometry, atomic, review 495
– detmn. of – by spectrometry, X-ray, PIXE with thick targets 370
– detmn. of elements and – in silicate materials, soils, sediments, sludge after HF-digestion in a closed system 135
– detmn. of – in biological materials by voltammetry with high-pressure ashing system 142
– detmn. of – in boron materials by epithermal neutron activation anal. 381
– detmn. of – in electronic materials by NAA 382
– detmn. of – in high-purity platinum by AAS 561
– detmn. of – in optical glass, coprecipitation and AAS 528
– detmn. of– in phosphoric acid by AAS and OES 536
– detmn. of major elements and – in biological materials by AAS, high reliability 739
– detmn. of –, masking, chelation and extr. of high iron and salt matrices 583
– marine biological reference materials for – 712
– preconc. of – on oxine celulose 69
– quality control program for anal. of – in foods and diet foods by FOA European cooperation 684
– sepn. of – from high-purity metals by electrolytic dissolution and electrodeposition of the matrix 583
– transfer of – and nutrients from sewage sludges amended soils to crops 634
Trace matter
– sampling of – in ambient air, review 5
Trace metal analysis
– methods of –, biological and environmental samples, book 366
Trace metalls
– anal. of – in aqueous solutions by spectrometry, X-ray fluorescence 163
– detmn. of – in organic materials using ICP source mass spectrometry 163
Trace metals
– anal. of – in natural water 180
– Cellex-P for preconc. of lead and other – from water 477
– detmn. of – in cerebrospinal fluids by flow injection AAS 289
– detmn. of – in foods by AAS 283
– detmn. of – in foods by ICP-MS 283
– detmn. of – in iron and steel by multielement extr. and AAS 380
– detmn. of – in palm oil by AAS 481
– detmn. of – in polymers by AAS with cup-in-tube technique 275
– detmn. of – in purified water by isotope dilution surface ionization MS 386
– detmn. of – in rain water by differential pulse stripping voltammetry 180
– detmn. of – in sea water by voltammetry, anodic stripping, computer-based 278
– detmn. of – in sediments, standard reference materials by graphite furnace AAS 384
– detmn. of – in silicon carbide by AAS 382
– detmn. of organ.-assoc. – in estuarine sea water by solvent extr. and AAS 477
– partial matrix reduction with $NaBH_4$ for preconcentration of – from hard lead alloys 57
– sepn. of – by chromatography, ion-exchange, retention of organic ligands on anionic and nonanionic resins 261
– sepn. of – by ion exchange on poly(dithiocarbamate) chelating resins 64
Tramadol
– detmn. of – in blood serum by capillary GC with N-selective detection 197
Transglutaminase
– detmn. of – with dansyl cadaverine by fluorimetry, modification 299
Transition metal ions
– sepn. of – on silica-immobilized PAPH 574
Transition metals
– sepn. of alkali metals and – using zirconium phosphate siliga gel as ion-exchangers 260
– sepn. of – by chromatography, HPLC, EDTA in mobile phase 572
– sepn. of lead and – by chromatography, liquid on titanium antimonate 260
Trelibet
– detmn. of – in blood plasma and urine by GC 295
Triacetylcellulose
– chromatography, HPLC, – as sorbent 372
Triacylglycerols
– anal. of – in peanut oil by reversed-phase LC 481
Triazolobenzodiazepine
– detmn. of –, estazolam in blood and urine by HPLC 493
Tributylphosphate
– detmn. of dibutylphosphoric acid in – by TLC 274
– sepn. of uranium from iron and thorium by extr. with – 578
Trichlorfon
– detmn. of – in biological materials and technical products by GC after derivatization 241
2-Trichloromethylbenzimidazole
– detection of azines by – on TLC plates 271
Trichlorosilane
– detmn. of carbon in – by metastable transfer emission spectrometry 84
Trichothecenes
– anal. of – by GC, as trimethylsilyl- and trifluoroacetyl derivatives 94
– anal. of –, mycotoxins in human blood by capillary GC/CI-MS 399
– detection of – in blood plasma and urine by GC/ECD 493
– detection of – in human blood by capillary GC/MS 399
– detection of – mycotoxins in human urine by GC/MS 399
– ident. of macrocyclic – in cell cultures by capillary GC/MS 94
– sepn. of – by GC/MS, as pentafluoropropionyl and trifluoroacetylesters 94
Triclabendazole
– detmn. of – and metabolites in blood plasma by HPLC 587
Trifluoroacetylglycine
– enantiomer resolution of diols by GC, derivatization by N– 78
Triglycerides
– anal. of – by capillary GC, programmed temperature injection 269
– detmn. of – by fluorimetry 293
– detmn. of glycerol, 1,2-propanediol and – in blood serum by HPLC and post-column reactor 485
– detmn. of – in blood serum by enzymatic fluorometry 196
– detmn. of medium chain – in infant formulas by reversed-phase HPLC 187
Trihalomethanes
– detmn. of chloroform and – in water by headspace GC 281
– ultrasonic solvent extr. of – from granular activated carbon 273
Trihydroxybenzoic acids
– sepn. of dihydroxybenzoic acids and – by two-dimensional TLC 468
Trimellitic anhydride
– detmn. of – in air by reversed-phase HPLC 180
Trimethoquinol
– detmn. of – in blood plasma by HPLC 199
Trimethylgallium
– anal. of – with ICP spectrometry 273

Trimipramine
– detmn. of metapramine, imipramine – and metabolites in blood plasma by HPLC 198
Trinitrotoluene
– detmn. of 2,4,6–– by Raman spectrometry 277
Trioctylamine
– extraction, properties of – 69
Trioctylphosphine oxide
– extr. chromatographic sepn. of gallium with – 584
Triphenylarsine
– detmn. of triphenylphosphine, – and triphenylstibine by indirect iodometry 466
Triphenylphosphine
– detmn. of –, triphenylarsine and triphenylstibine by indirect iodometry 466
Triphenylstibine
– detmn. of triphenylphosphine, triphenylarsine and – by indirect iodometry 466
Triphenyltetrazolium derivatives
– detmn. of sulfur in alloys and salts with – by spectrophotometry 81
Triphosphate
– detmn. of sulfate, ortho-phosphate and – by FIA with lead-selective electrode 75
Triterpene ketonic alcohols
– detmn. of – by GC/MS 582
Trypsin
– improved HPLC assay for – 587
Tryptophan
– detection of – in proteins, acid hydrolysates 102
– detmn. of desmosine, isodesmosine, 5-hydroxylysine, –, lysinoalanine and amino sugars in proteins and tissues by amino acid anal. 195
– detmn. of – in feeds and cereals by HPLC 389
– detmn. of – in feeds by HPLC 389
– detmn. of – with ATP/pyrophosphate isotopic exchange reaction 101
Tryptophan hydroxylase
– detmn. of – by HPLC with electrochem. detection 299
Tungsten
– anal. of – in steel by glow discharge emission spectrometry 380
– detmn. of – in alloys and ores by AAS, hydroxide precipitation of interfering metals 81
Tungsten concentrates
– detmn. of bismuth and tin in – by spectrometry 81
Tyrosine
– anal. of fluorine and iodine derivatives of – by HPLC 593
– detmn. of phenylalanine and – in blood spots on filter paper by HPLC 593
– sepn. of ferulic acid and – in wheat seeds by reversed-phase HPLC 185
Tyrosine aminotransferase
– detmn. of p–– by HPLC 494
Tyrosine hydroxylase
– detmn. of – by HPLC/radiochem. detection 489

U

Ubiquinols
– detmn. of tocopherols, – and ubiquinones in biological samples by HPLC with UV detection 487
Ubiquinones
– detmn. of tocopherols, ubiquinols and – in biological samples by HPLC with UV detection 487
Uracil derivatives
– sepn. of – by ligand-exchange HPLC on oxim-silica-polyol 596
Uranium
– detmn. of – in phosphate rocks by substoichiometric isotope dilution 88
– detmn. of – in phosphoric acid by extr. and spectrophotometry 585
– detmn. of – in rocks by NAA 384
Uranium
– detmn. of – in sea water by XRF spectrometry 279
– detmn. of – in teeth and kidney stones by fission track techniques 395
– sepn. of – and thorium by extr. with dicyclohexano-18-crown-6 578
– sepn. of – from iron and thorium by extr. with tributylphosphate 578
– sepn. of lanthanides traces and other metals from – by ICP-MS 175
– sepn. of lanthanum, cerium and samarium from –, comparison of extr. and ion-exchange 72
– sepn. of technetium from – by extr. with crown ethers and cryptands 176
– sepn. of vanadium and – by extr. with Aliquat 336 463
Uranium(IV)
– detmn. of – with cacotheline by spectrophotometry 375
Uranium(VI)
– detmn. of – with 1-(2′-thiazolylazo)-2-naphthol by spectrophotometry, stabilizer Triton X-100 578
– detmn. of – with salicylaldehyde semicarbazone by spectrophotometry 375
– extr. and detmn. of – with 2,6-diacetylpyridine bis(benzoylhydrazone) 578
– mechanisms of preconc. and voltammetric behavior of – at glassy carbon electrodes modified by TOPO 462
– quenching behavior of lanthanides on the UV fluorecence of – 462
– sepn. of – by extr. with di(2-ethylhexyl)-phosphoric acid 577
Uranium compounds
– detmn. of thorium in – and rocks by NAA after isotopic ion-exchange sepn. 175
Uranium dioxide
– detmn. of oxygen/uranium ratio in irradiated – 175
Uranium dioxide fuels
– detmn. of fission products in – by HPLC 175
Uranium ores
– detmn. of hafnium and zirconium in – by NAA 384
Urate
– detmn. of – by flow-injection anal. using uricase-immobilized reactor 271
Urea
– bipolar pulse conductometric detection of enzyme reactions in flow-injection systems, – in blood serum and urine 592
– detmn. of ammonia and – in water, conc. of indophenol at Amberlite XAD-7 280
– detmn. of – by enzyme electrode 592
– detmn. of – in blood serum by enzymatic FIA 592
– detmn. of – in milk products by automated enzymatic anal. 480
– detmn. of – in urine with o-phthalaldehyde by spectrophotometry 100
– microsensor for – based on an ion-selective field effect transistor 396
Urease
– modified polymer for enzyme immobilization, – 99
Uric acid
– detmn. of – by spectrophotometry, with immobilized uricase 100
– detmn. of – in biological materials by LC, uricase for peak ident. 290
– detmn. of – in blood serum by reversed-phase HPLC 100
Uricase
– detmn. of uric acid by spectrophotometry, with immobilized – 100
Urine
– anal. of amino acids in brain tissue and – by automated GC 291
– anal. of hyaluronic acid and chondroitin sulfates in – by HPLC 397
– anal. of oleandomycin in blood serum and – by HPLC 295
– bipolar pulse conductometric detection of enzyme reactions in flow-injection systems, urea in blood serum and – 592
– detection of 5-phosphoribosyl-4-(N-succinylcarboxamide)-5-aminoimidazole in – by Bratton-Marshall reaction 296
– detection of fraudulent use of zeralenol and natural occurence of zearalenone in cattle – by HPLC 186
– detection of trichothecenes in blood plasma and – by GC/ECD 493
– detection of trichothecenes mycotoxins in human – by GC/MS 399
– detmn. of 2-(p-chlorophenyl)pyrazol[4,3-c]-quinoline-3(5H)-one in blood plasma, – and bile by HPLC 295
– detmn. of 3-methylhistidine in – by cationic-exchange/colorimetry 102
– detmn. of 4-methylthio-2-hydroxybutyrate in – 193
– detmn. of 6-β-naltrexol and naltrexone in – by TLC 297
– detmn. of 6-keto-prostaglandin-$F_1\alpha$ in – by radioimmunoassay 595
– detmn. of Δ^9-tetrahydrocannabinol metabolites in blood plasma and – by GC/MS and EMIT 493
– detmn. of acetylated caffeine metabolites in – by high-performance exclusion chromatography 200
– detmn. of aflatoxin B_1, citrinin, ochratoxin A, metabolites of mycotoxins in – by HPLC 493
– detmn. of aldosterone antagonist in – by HPLC 104
– detmn. of arsenic in – by electrothermal AAS, L'vov platform and matrix modification 192
– detmn. of beryllium in – with electrothermal AAS 289
– detmn. of catecholamines in – by HPLC/precolumn dansylation 101
– detmn. of clavulanate in blood plasma and – by HPLC/fluorimetry 199
– detmn. of cresols in – by HPLC 194
– detmn. of cyproheptadine in blood plasma and – by HPLC 199
– detmn. of decarboxylated S-adenosyl methionine in – by HPLC/fluorimetry 201
– detmn. of desferrioxamine in blood plasma and – by AAS after extr. 490
– detmn. of diethylstilbestrol in – by HPLC/capillary GC 294
– detmn. of enantiomeric composition of phenolic metabolites of phenytoin in – by HPLC 490
– detmn. of fenoldopam, glucuronides in blood plasma and – by HPLC with electrochem. detection 198
– detmn. of furazolidone in swine tissues and – by HPLC after Extrelut-1 extr. 188
– detmn. of heavy metals in – and biological tissues by DPASV 192
– detmn. of hydantoin-5-propionic acid in – by GC 593
– detmn. of iodine in milk and – by spectrophotometry, Sandell-Kolthoff reaction 480
– detmn. of iron(III) traces in metals, water, wine and – as purpurin complex by spectrophotometry 170
– detmn. of kallikrein in – by spectrophotometry, construction of nl colorimeter 399
– detmn. of lead in – by extr. and flow injection/AAS 591

Urine
– detmn. of melatonin in – by HPLC/fluorimetry 296
– detmn. of metformin and phenformin in blood plasma and – by reversed-phase HPLC 199
– detmn. of morphine, morphine-6-glucuronide and normorphine in blood plasma and – by HPLC with electrochem. detection 200
– detmn. of mucopolysaccharides in – by colorimetry 103
– detmn. of nicotine N-oxide in – by GC after thermal conversion 593
– detmn. of oxalate in – by flow injection anal. 592
– detmn. of oxalate in – by ion chromatography 592
– detmn. of oxalic acid and α-keto acids in – with cobalt phthalocyanine modified electrodes 290
– detmn. of pentachlorophenol in blood serum and – by GC after pyrolytic ethylation 449
– detmn. of platinum in – by voltammetry 591
– detmn. of protein in –, methods review 292
– detmn. of rhein in – by HPLC 492
– detmn. of serotonin in – by HPLC with electrochem. detection 291
– detmn. of silicon, calcium, magnesium and phosphorus in – by ICP-ES 395
– detmn. of tianeptine in blood plasma, – and tissues by HPLC 491
– detmn. of trelibet in blood plasma and – by GC 295
– detmn. of triazolobenzodiazepine, estazolam in blood and – by HPLC 493
– detmn. of urea in – with o-phthalaldehyde by spectrophotometry 100
– detmn. of vanillylmandelic acid and normetanephrine in – by HPLC, ethoxy-homologs as standards 290
– detmn. of volatile free fatty acids in – by GC/MS 290
– detmn. of xylan, polysulfated in – by GLC 200
– quant. of deoxynivalenol and metabolites in bovine – and feces by GC with ECD 587
– trace anal. of selected benzidine and diamino-diphenylmethane derivatives in – by LC 297
Urushiol
– anal. of long chain phenols, –, laccol, thitsiol and phenylalkyl catechol compounds in Burmese lac 274

V

Valine
– sepn. of D- and L– by reversed-phase HPLC using Cu(II)/aspartame eluant 593
Vanadate
– detmn. of tartaric acid in wine with – by FIA 479
Vanadium
– catalytic detmn. of – with the Landolt reaction and conductometric monitoring 376
– detmn. of – by flow-injection spectro-photometry based on catalysis of the gallic acid bromate reaction 74
– detmn. of – in plants by HPLC 89
– detmn. of molybdenum, chromium and – by ion-pair HPLC based on precolumn chelation with PAR 579
– molecular exclusion chromatography in studies of the –- and nickel-containing species in residual oils 84
– sepn. of – and uranium by extr. with Aliquat 336 463
Vanadium(IV)
– detmn. of – by titration, cacotheline as redox indicator 463
Vanadium(V)
– detmn. of – in steel and titanium alloys by extr. spectrophotometry 177
Vanadium(V) reagent
– detmn. of α-carbonyl or α-hydroxyl carboxylic acids with – 79
Vanillylmandelic acid
– detmn. of – and normetanephrine in urine by HPLC, ethoxy-homologs as standards 290
Vapors
– anal. of condensable – in progress streams by capillary GC 383
Vephylline
– detmn. of – in blood plasma by HPLC 492
Veratryl alcohol
– detmn. of – by enzymatic anal. 100
Versatic 911
– sepn. of copper(II) by extr. with – 577
Vertebrates
– assay for collagenase of – by TLC/fluorimetry 494
Vesicles
– sepn. of liposomes, – and viruses by HPLC 288
Video densitometry
– detmn. of sucrose and fructose in biological materials by TLC and – 484
Vinca alkaloids
– electroanalytical detmn. of – used in cancer chemotherapy 589
Vincamine
– detmn. of – in blood plasma by HPLC 492
Viruses
– sepn. of liposomes, vesicles and – by HPLC 288
Vitamin A
– detmn. of – and vitamin E in blood serum by HPLC, with switched detectors 487
– detmn. of. – in foods by HPLC 189
– detmn. of – in presence of its degradation product by UV spectrometry 97
– detmn. of –, vitamin D and vitamin E by HPLC and diode-array detection 481
Vitamin B_2
– detmn. of – and vitamin B_6 in infant formulas by reversed-phase HPLC 189
Vitamin B_6
– detmn. of – by titrimetry using chloramine-T, bromamine-T and bromamine-B 189
– detmn. of vitamin B_2 and – in infant formulas by reversed-phase HPLC 189
Vitamin D
– detmn. of vitamin A, – and vitamin E by HPLC and diode-array detection 481
Vitamin E
– detmn. of vitamin A and – in blood serum by HPLC, with switched detectors 487
– detmn. of vitamin A, vitamin D and – by HPLC and diode-array detection 481
Vitamin K
– detmn. of – in blood serum by HPLC 488
Vitamin tablets
– detmn. of folate in – by an EMIT type assay 393
Volatile compounds
– detmn. of – in epoxy powder points by GC/MS 472
– detmn. of – in water, errorrs by bubbles and headspace 478
– detmn. of – in wine by GC, comparison of techniques 479
– in foods, ser. 1: qualitative data, ser. 2: quantitative data, book 259
Voltammetry
– detmn. of trace elements in biological materials by – with high-pressure ashing system 142
– hydrodynamic modulation – with a microcylinder electrode, electrodes 459
– resolution of linear potential sweep – 459
Voltammetry, anodic stripping
– detmn. of trace metals in sea water by –, computer-based 278
Voltammetry, cathodic stripping
– copper-based mercury film electrode in – 459
Voltammetry, inverse
– residual current of a graphite electrode in – 164

W

Washing powders
– detmn. of sulfur, phosphorus, magnesium, silicon and aluminum in – by XRF spectrometry 276
Waste incineration ash
– certification of elements in – 414
Waste materials
– anal. of – by automated IR screening technique 479
Waste sites
– ident. of hazardous substances in – by computerized IR anal. 388
Waste water
– detmn. of chloride in circulating water and – by ionometry 280
– detmn. of copper, nickel, zinc and chromium (VI) in – by ion-exchange methods 386
– detmn. of cyanide in – by chronopotentiometry 182
– detmn. of hexabromo-2-butene in – by turbidimetry 280
– detmn. of linear alkylbenzene sulfonates in water and – 281
– detmn. of nitroorganics, explosives in munitions – by reversed-phase HPLC 183
– detmn. of organic compounds in – by GC 387
– detmn. of organic impurities in natural water and – by chromatography/adsorption trapping 387
– detmn. of surfactants, non-ionic in water and – by AAS 281
Water
– anal. of acid herbicides in natural – as penta-fluorobenzyl esters by capillary GC 285
– anal. of brass corrosion products in sea – and brackish water 584
– anal. of chloroacetic acids and chloral hydrate in tap – by GC with ECD 183
– anal. of corrosion products of aluminum brass in sea –, comparison between methods 177
– anal. of hydrocarbons, chlorinated in – by GLC 387
– anal. of lipids in marine organisms, sediments and sea – by TLC/FID 388
– anal. of mercury and methylmercury in rain – by cold vapor AAS 510
– anal. of trace elements in –, speciation by electrochem. techniques, review 476
– anal. of trace metals in natural – 180
– Cellex-P for preconc. of lead and other trace metals from – 477
– detection of hydrocarbons, halogenated in – by GC, comparison of direct headspace and aqueous injection 478
– detection of volatile organic pollutants in – by GC, continuous monitoring 478
– detmn. of α-keto acids in natural – 182
– detmn. of aluminum in natural – with chrome azurole S by colorimetry, reactivity of hydrolysed aluminum species 181
– detmn. of aluminum in – with pyrocatechol violet by flow injection/spectrophotometry 477
– detmn. of amines, aromatic in sea – by HPLC 281
– detmn. of ammonia and urea in –, conc. of indophenol at Amberlite XAD-7 280
– detmn. of antimony and selenium in – by hydride generation AAS 181
– detmn. of arsenic in – by spectrophotometry, arsine-silver-diethyldithiocarbamate-morpholine-chlorform system 478
– detmn. of beryllium in – by GC/ECD 477
– detmn. of bisphenol A diglycidyl ether bisphenol F diglycidyl ether in – by HPLC 182
– detmn. of bromide in – by catalytic spectro-photometry 182

Water
- detmn. of cadmium and lead in natural – by sorption-AAS 180
- detmn. of chemical oxygen demand in –, minimising of chloride effect 182
- detmn. of chloride in circulating – and waste water by ionometry 280
- detmn. of chlorine dioxide in – by gas-diffusion flow injection anal. 476
- detmn. of chloroform and trihalomethanes in – by headspace GC 281
- detmn. of copper traces in – by catalytic anal. as nitrite 477
- detmn. of deuterium in – by gas-phase IR spectrometry 175
- detmn. of diclorpyr in – by GC 286
- detmn. of dicofol, fenson and tetradifon in fish and – by GC 286
- detmn. of dissolved and adsorbed phosphate in turbid natural – by anodic voltammetry 476
- detmn. of dissolved in organic antimony(V) and antimony(III) in natural – by hydride generation AAS 181
- detmn. of elements in mine – by ICP-AES 477
- detmn. of elements in sea – by MIP-AES, solution nebulization 477
- detmn. of explosives in – by capillary GC with ECD 183
- detmn. of fluoride in potable – by potentiometric FIA 476
- detmn. of geosmin in – and fish by capillary GC with FID 182
- detmn. of gold in – by anion-exchange batch extr. and electrothermal AAS 279
- detmn. of halocarbons in – by GC, headspace and extr. techniques 280
- detmn. of heavy metals in inorganic colloids in – 278
- detmn. of humic substances in sea – using adsorptive stripping voltammetry 182
- detmn. of – in crude oils by microwave absorption 470
- detmn. of – in plant materials by thermogravimetry and NMR 586
- detmn. of iron(III) in – with 5-Br-DMPAP by spectrophotometry 386
- detmn. of iron(III) traces in metals, –, wine and urine as purpurin complex by spectrophotometry 170
- detmn. of iron in – with thiazolylazoaminophenol derivatives by spectrophotometry 478
- detmn. of iron traces in – by chemiluminescence 280
- detmn. of lead and cadmium in – by spectrometry, atomic absorption, flameless techniques 478
- detmn. of lead and methyllead ions in – by AAS 279
- detmn. of linear alkylbenzene sulfonates in – and waste water 281
- detmn. of manganese in – by titanium(IV) hydroxide coprecipitation and XRF 386
- detmn. of mercury in lake – by He-MIP emission spectrometry 181
- detmn. of molybdenum in – by polarography 279
- detmn. of nitrate and sulfate in rain – by capillary electrophoresis 476
- detmn. of nitrite in air and – by spectrophotometry, diazotization of 4-nitroaniline 75
- detmn. of nitrite in natural – by flow injection anal./fluorimetry 476
- detmn. of organ.-assoc. trace metals in estuarine sea – by solvent extr. and AAS 477
- detmn. of organic and inorganic species in air and rain – by ion chromatography 474
- detmn. of organic compounds in – by GC, open stripping system 280

Water
- detmn. of organic impurities in natural – and waste water by chromatography/adsorption trapping 387
- detmn. of ortho-phosphate and total phosphorus in sea – in an autoanalyzer system 354
- detmn. of phenoxy acid herbicides, herbicides in – by solid-phase extr./HPLC 183
- detmn. of phosphate in –, molybdenum blue adsorbed on Sephadex gel 181
- detmn. of phosphorus in natural – by AAS after coprecipitation with zirconium hydroxide 181
- detmn. of phthalates in – and sediments by GC 182
- detmn. of platinum and iridium in –, marine sediments and marine organisms, isolation as anions on resins 386
- detmn. of reduced sulfur gases in antarctic lakes and sea – by GC after solid adsorbent preconc. 280
- detmn. of ruthenium in minerals and – by laser spectrometry, after lead probe conc. 88
- detmn. of selenium in sea –, marine sediments and tissues by hydride generation AAS 181
- detmn. of strong complexing agents in – by extr. 387
- detmn. of strontium-90 in – as yttrium-90, sepn. by extr. and coprecipitation 279
- detmn. of sulfide in – by fluorescence quenching of mercuriofluoresceinates 182
- detmn. of sulfide in – by stripping voltammetry, with open-circuit preconc. 476
- detmn. of sulfide in natural – by thermometric titration 280
- detmn. of surfactants, non-ionic in – and waste water by AAS 281
- detmn. of thallium in sediments and natural – 386
- detmn. of thiol flotation collectors and sulfide in – by differential pulse polarography 471
- detmn. of total iodine in natural – by polarography 280
- detmn. of total ionic alkyllead in – by electrothermal AAS 279
- detmn. of trace – contents in liquefied hydrocarbons by headspace GC 278
- detmn. of trace metals in purified – by isotope dilution surface ionization MS 386
- detmn. of trace metals in rain – by differential pulse stripping voltammetry 180
- detmn. of trace metals in sea – by voltammetry, anodic stripping, computer-based 278
- detmn. of trace phosphate in – by spectrophotometry of ion-exchange thin-layer 476
- detmn. of trace silver in – by spectrophotometry, Ag-gelatin complex 71
- detmn. of uranium in sea – by XRF spectrometry 279
- detmn. of volatile compounds in –, errorrs by bubbles and headspace 478
- detmn. of volatile hydrocarbons, halogenated in – by headspace GC 387
- formation and stability of zinc citrate and cadmium citrate complexes in – 477
- hydride generation AAS of arsenic in marine sediments, marine organisms and sea – with in situ conc. 387
- , investigation, analysis, treatment, book 365
- ion-exchange for detmn. of biologically active copper in sea – 279
- isolation of organic compounds from – 387
- preconc. of phosphate in – on Zr-loaded carbon, activated 540
- speciation of manganese in fresh – by spectrometry, EPR 279

Water supply
- handbook of – techniques 160

Wax esters
- detmn. of fatty acids and alcohols in – of marine organisms by HPLC 196

Wheat
- detmn. of citrinin and ochratoxin A in – and barley by HPLC 91

Wheat seeds
- sepn. of ferulic acid and tyrosine in – by reversed-phase HPLC 185

Wine
- anal. of flavonol aglycones in – by HPLC 284
- anal. of organic acids in – by ion chromatography 92
- detmn. of ammonia in – and milk with gas-sensing probe 479
- detmn. of azide in – by HPLC 284
- detmn. of copper in – by potentiometric stripping anal. 479
- detmn. of diethylene glycol in – by ^{13}C-NMR 284
- detmn. of diethylene glycol in – by capillary GC with FID 479
- detmn. of diethylene glycol in – by two-dimensional GC 284
- detmn. of ethanol and acetaldehyde in – by enzymatic method and FIA 479
- detmn. of iron(III) traces in metals, water, – and urine as purpurin complex by spectrophotometry 170
- detmn. of iron in –, foods and minerals with 5, 5-dimethyl-1,2,3-cyclohexanetrione 1, 2-dioxime 3-thiosemicarbazone by spectrophotometry 284
- detmn. of organic acids in – by HPLC as phenacyl esters 284
- detmn. of tartaric acid in – by indirect polarography 284
- detmn. of tartaric acid in – with vanadate by FIA 479
- detmn. of volatile compounds in – by GC, comparison of techniques 479
- detmn. of zinc in biological materials, – and alloys by fluorimetry 484
- multivariate data anal. for discriminating of the origin of – 480

Wood
- detmn. of pentachlorophenol in – by HPLC with UV, amperometry and electron capture detector 483

Wood pulps
- detection of quinones in – as H_2O_2 by chemiluminescence 275

Working place atmospheres
- detmn. of dimethyl sulfate in – 517

Workplace
- collection phases in sampling of hydrocarbons, polycyclic aromatic at – 25

Work places
- detmn. of mercury in – by AAS and GLC 385

X

Xipamide
- detmn. of – and clopamide in pharmaceutical products by HPLC 96

X-ray analysis
- comparison of excitation methods for – 105

Xylan, polysulfated
- detmn. of – in urine by GLC 200

Xylansulfate
- anal. of – by chromatography, size exclusion 390

Y

Yohimbine
- detmn. of – hydrochloride in blood serum by HPLC 200
- detmn. of strychnine and – in pharmaceutical products by simult. spectrophotometry 590

Ytterbium oxide
– detmn. of lanthanides impurities in – by X-ray fluorescence spectrometry 177
Yttrium
– detmn. (simult.) of 14 lanthanides and – in lanthanide ores by ICP-AES 178
– sepn. preconc. of lanthanides and – from geological materials 88
Yttrium-90
– detmn. of strontium-90 in water as –, sepn. by extr. and coprecipitation 279

Z

Zearalenone
– detection of fraudulent use of zeralenol and natural occurence of – in cattle urine by HPLC 186
Zenkor
– solvent extr. of – metribucin 285
Zeralenol
– detection of fraudulent use of – and natural occurence of zearalenone in cattle urine by HPLC 186
Zinc
– detmn. of – and cadmium with 2,2′-pyridyl bis (2-quinolylhydrazone by photometry or fluorimetry 462
– detmn. of – by AAS, after solid phase extr. with naphthalene 72
– detmn. of –, cadmium and lead by spectrophotometry as Cu morpholine-4-carbodithioate complex 577
– detmn. of cadmium, copper, lead and – in biological materials by AAS 395
– detmn. of copper, – and cadmium in solid suspensions of biological materials by flame AAS and ICP-AES 345
– detmn. of copper and – in hair by ICP-AES spectrometry, direct sample insertion 192
– detmn. of copper and – in tissues, animal by AAS after acid extraction 192
– detmn. of copper, lead and cadmium in high-purity – by metal furnace AAS 379
– detmn. of copper, nickel, – and chromium(VI) in waste water by ion-exchange methods 386
– detmn. of – in biological materials, wine and alloys by fluorimetry 484
– detmn. of – in bronzes and brass by AAS 81
– detmn. of – in milk with 1-(2-quinolylazo)-2,4,5-trihydroxybenzene by spectrophotometry 480
– detmn. of lead, – and mercury with 1-phenyl-3-thiobenzoylthiocarbamide by extr. spectrophotometry 375
– detmn. of tellurium, – and cadmium in indium antimonide crystals by voltammetry 82
– detmn. of – traces by fluorimetry, synchronous derivative 462
– extr. of –, cadmium and lead(II) from HCl media by Amberlite LA-2 hydrochloride 168
– sepn. of lead traces from large amounts of –, indium, gallium and other elements in reagents on anion-exchange resin 80
Zinc citrate
– formation and stability of – and cadmium citrate complexes in water 477
Zinc enzymes
– , progress in inorganic biochemistry and biophysics, book 566
Zirconium
– anal. of – and zirconium alloys by ICP-AES using aerosol cyclone with low voltage spark discharge 381
– detmn. of – and hafnium by AAS 73
– detmn. of hafnium and – in uranium ores by NAA 384
Zirconium alloys
– anal. of zirconium and – by ICP-AES using aerosol cyclone with low voltage spark discharge 381
Zirconium phosphate
– anal. of – crystalline phases, exchange properties 371
– study of silicagel supported – as ion exchangers 371
Zirconium phosphate siliga gel
– sepn. of alkali metals and transition metals using – as ion-exchangers 260
Zoalene
– detmn. of – in chicken tissues by LC with electrochem. detection 188